

Figure 1

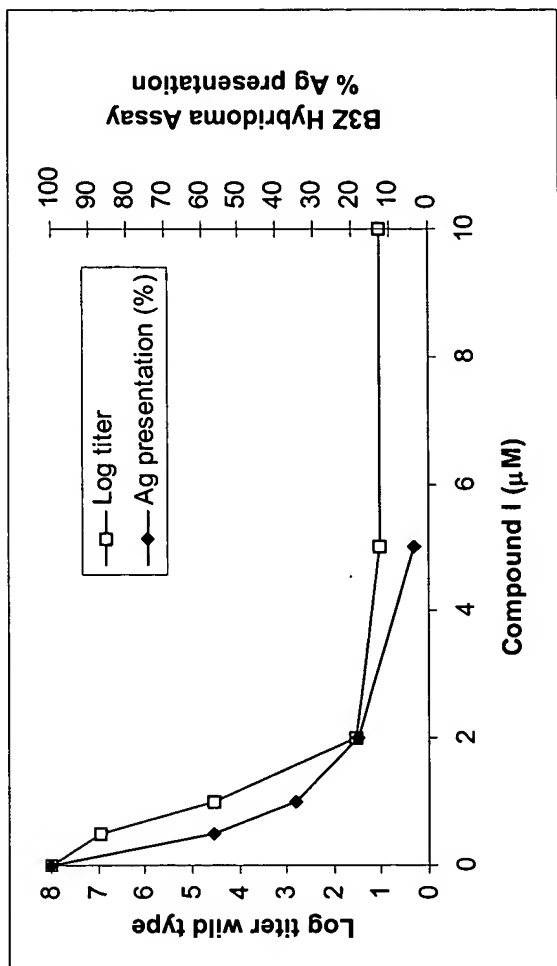


Figure 2A

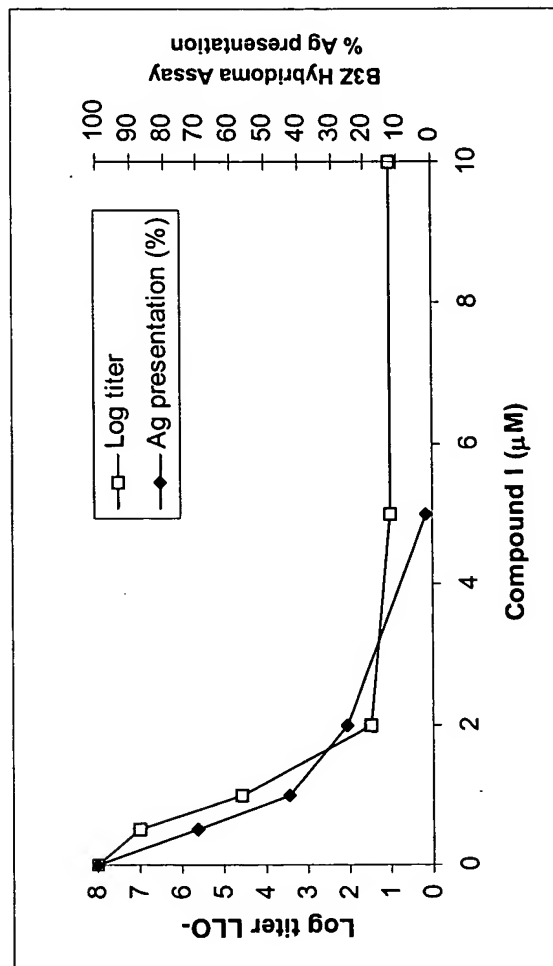


Figure 2B

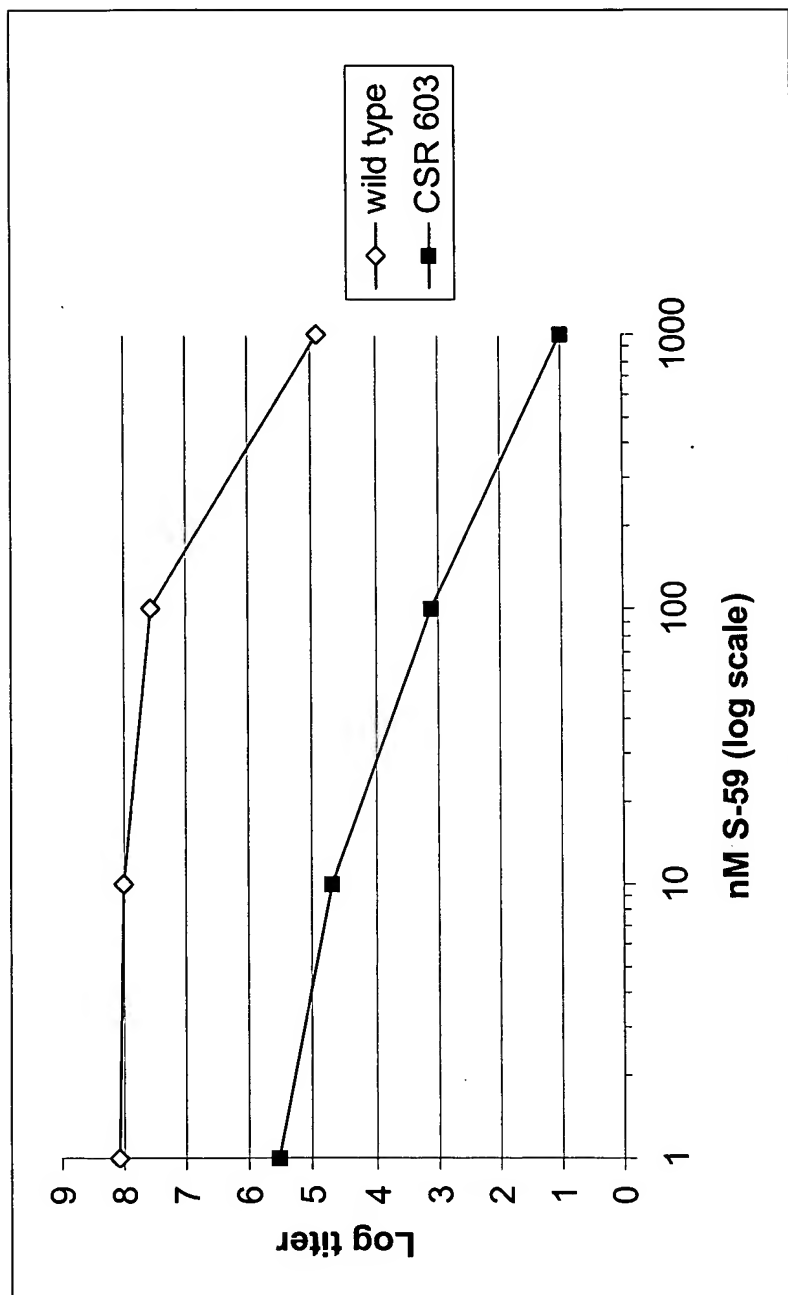


Figure 3

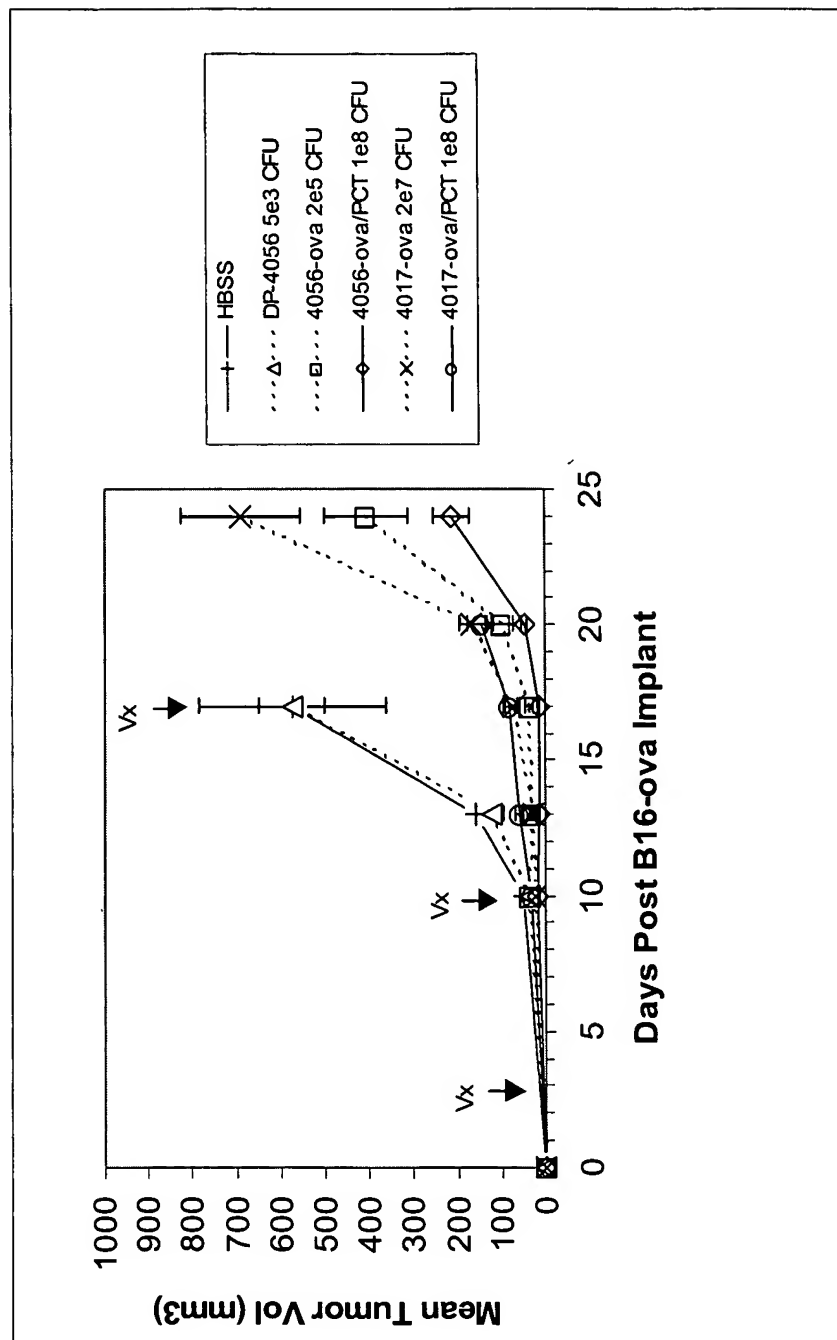


Figure 4

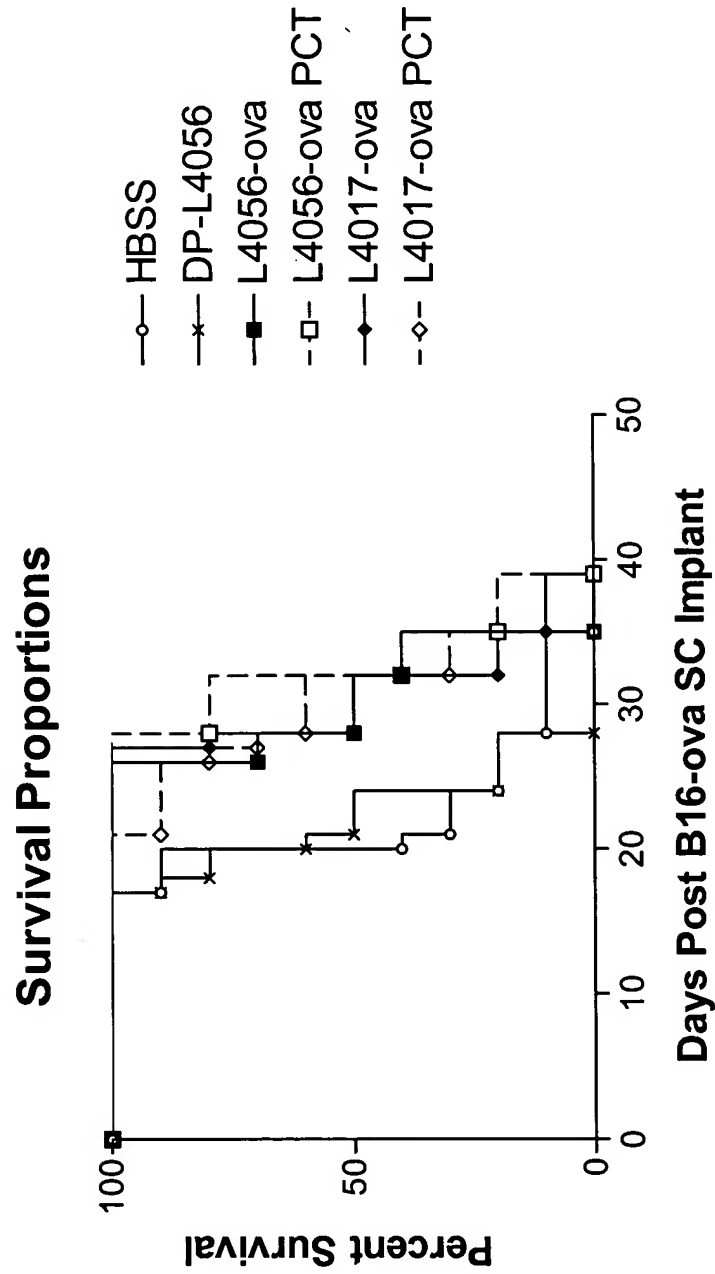
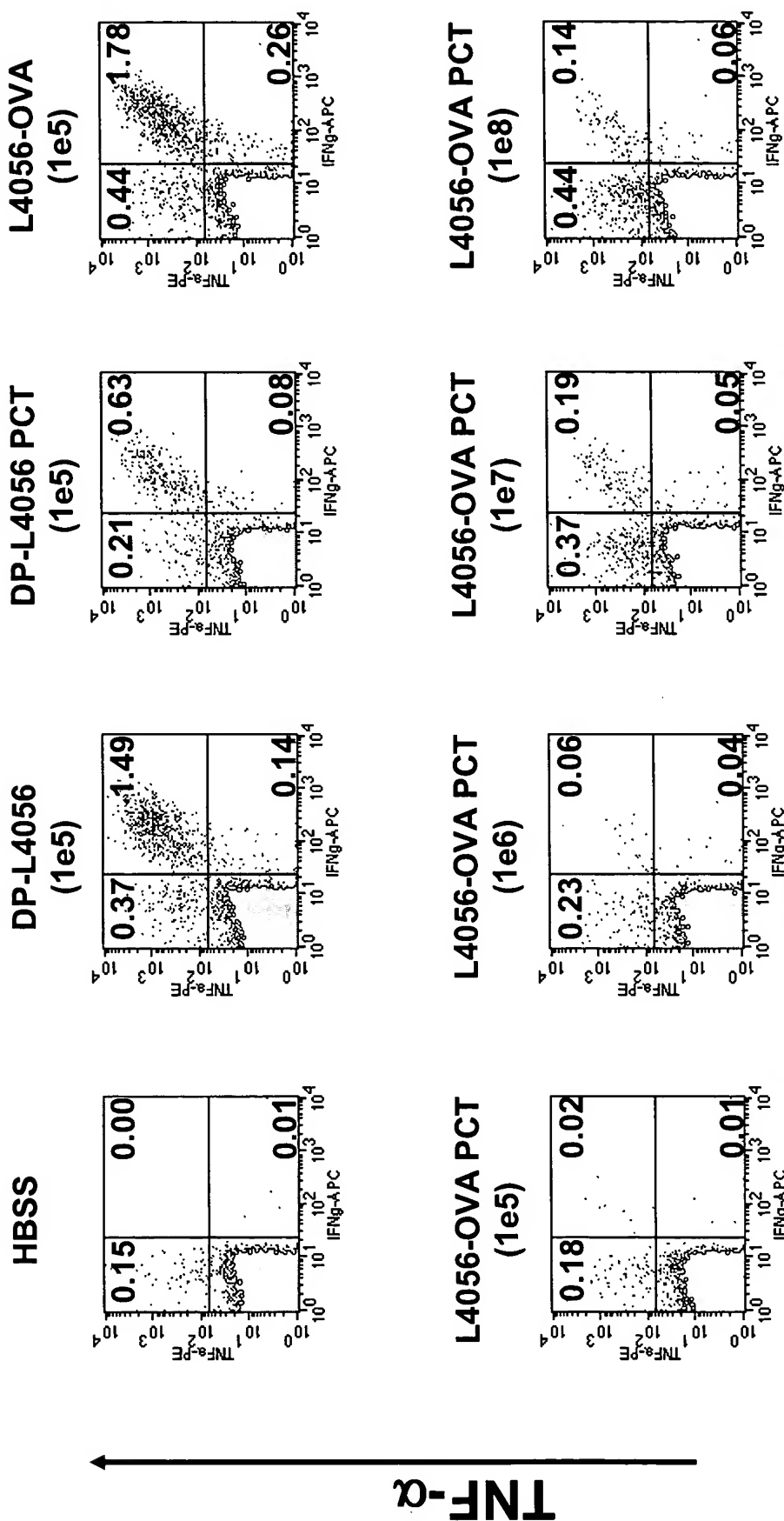


Figure 5

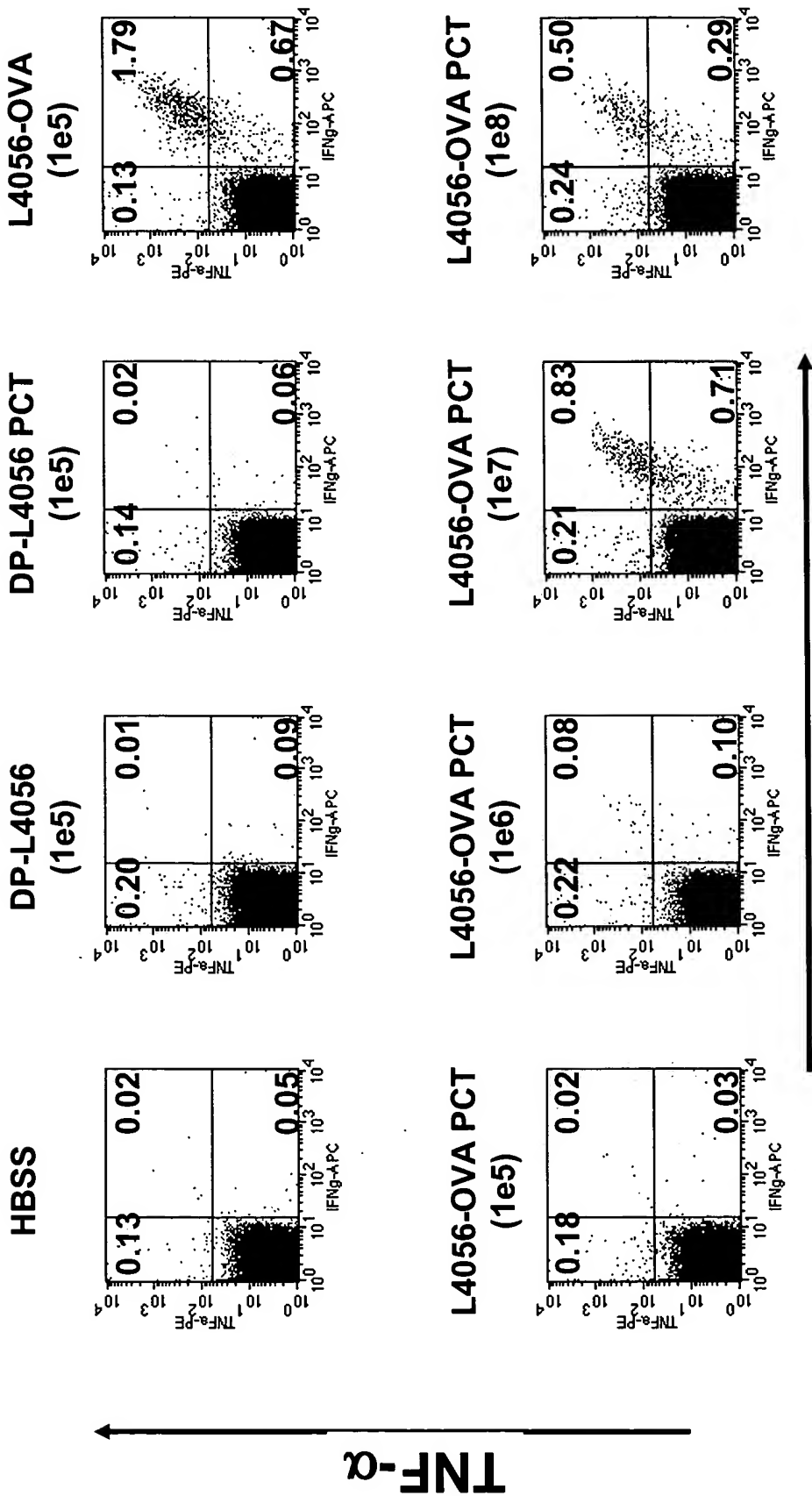
# LLO<sub>190-201</sub>-specific CD4<sup>+</sup> T cell response



**IFN-γ**

Figure 6A

OVA-specific CD8<sup>+</sup> T cell response



IFN-γ

Figure 6B

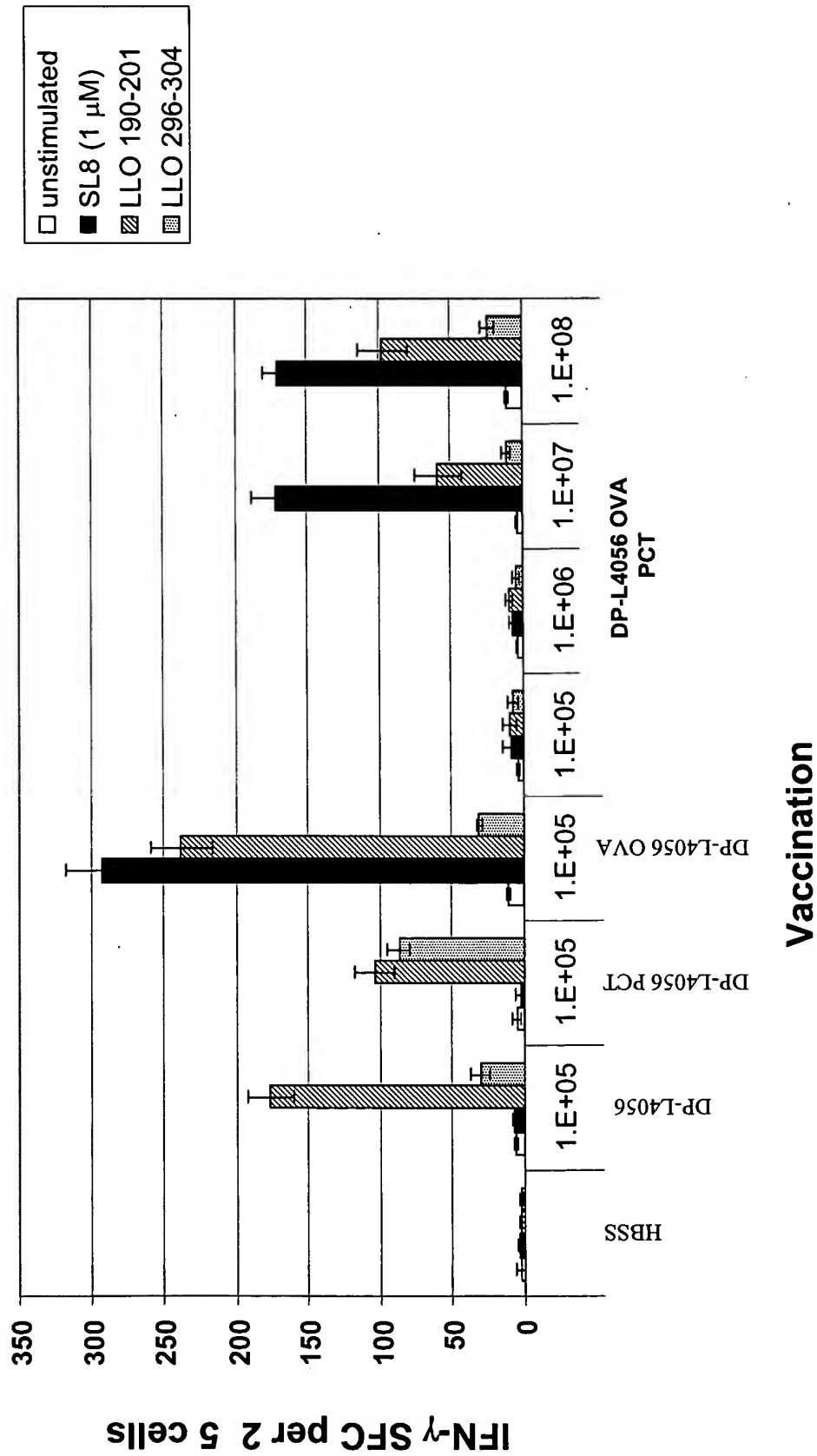


Figure 7



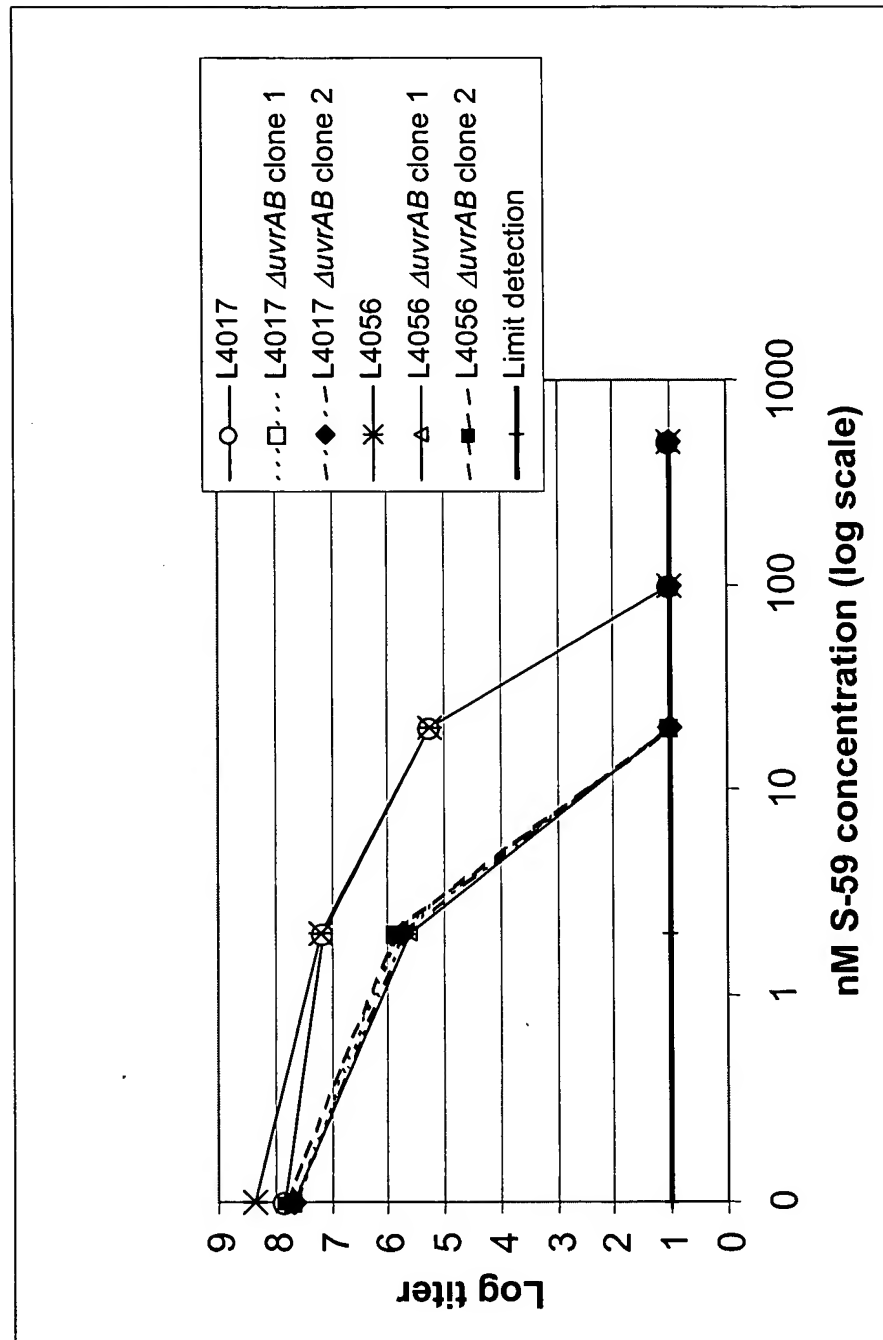


Figure 8A

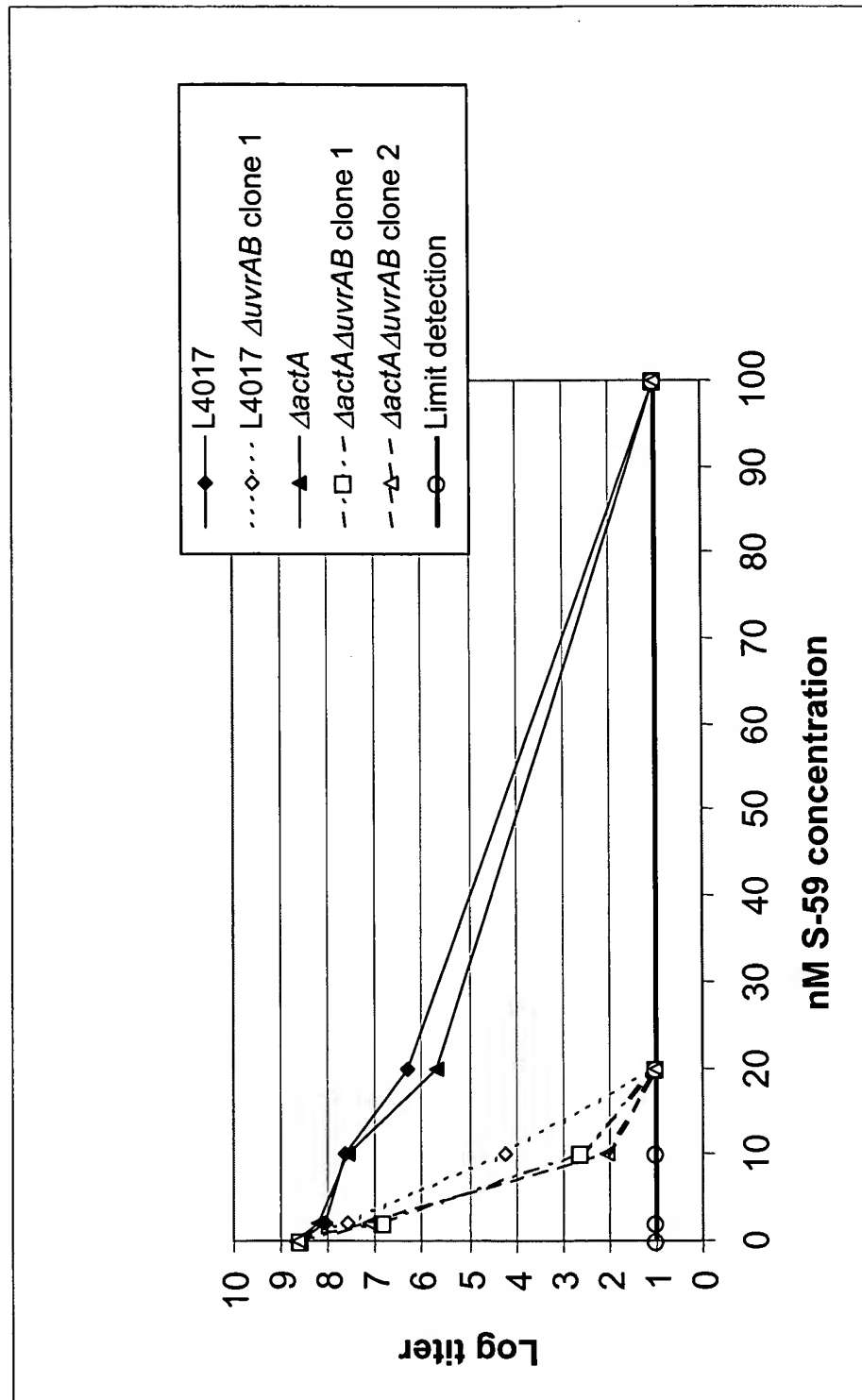


Figure 8B

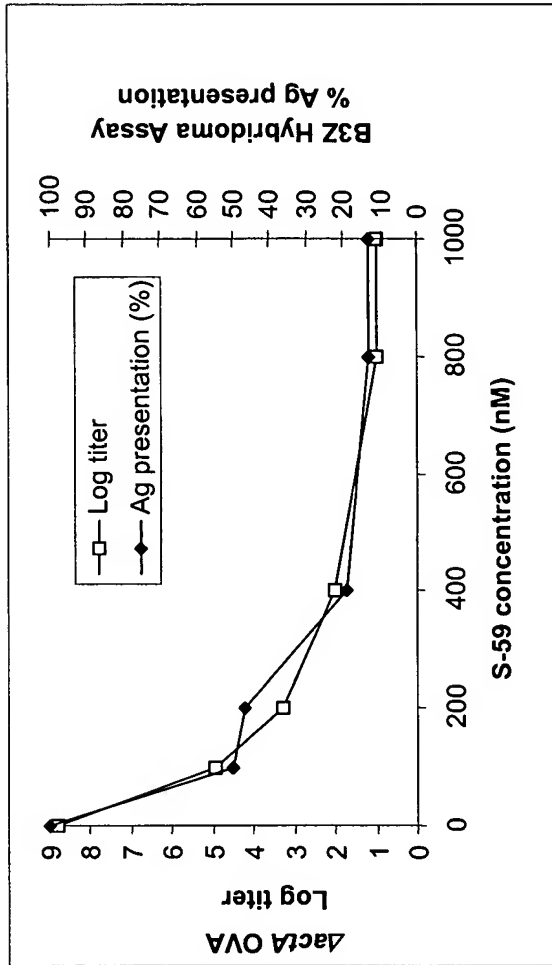


Figure 9A

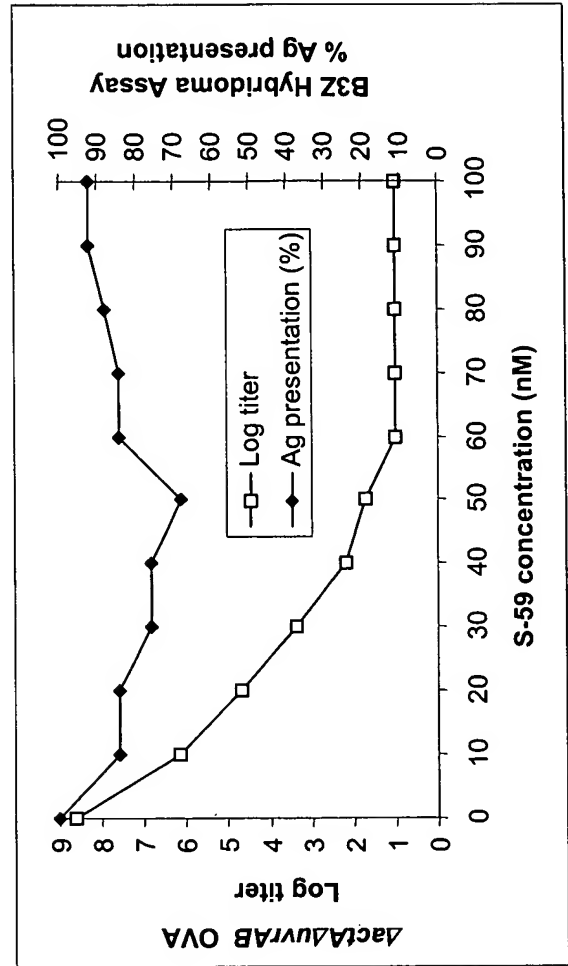
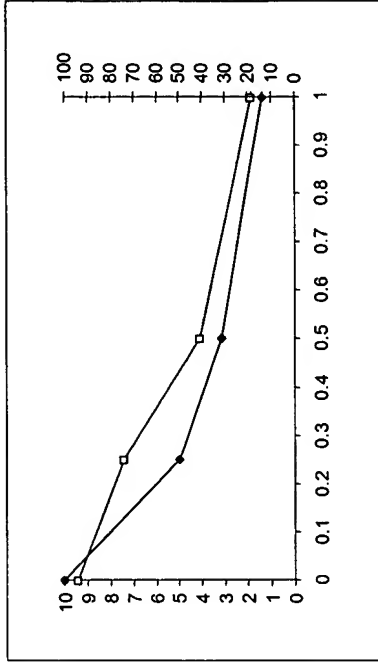


Figure 9B

Expanded plot



Expanded plot

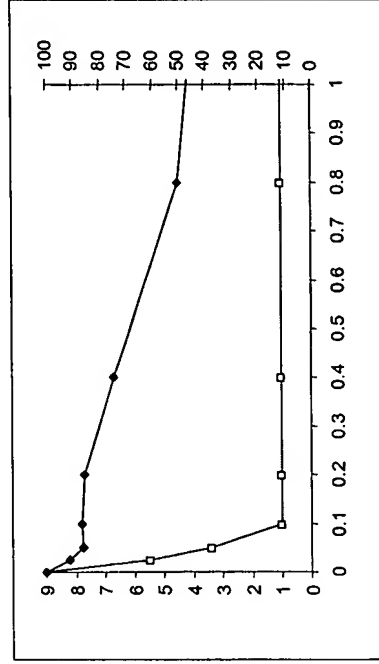


Figure 9C

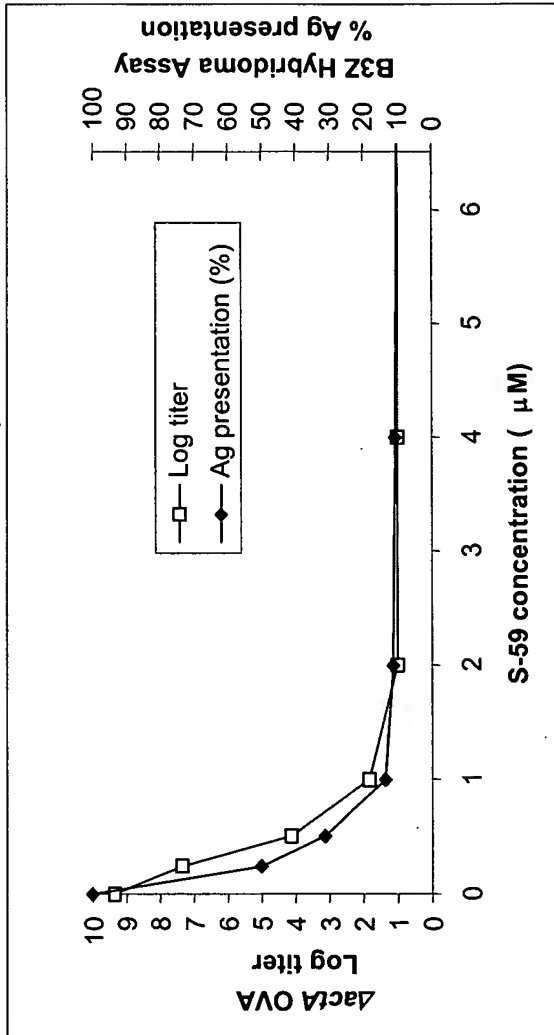
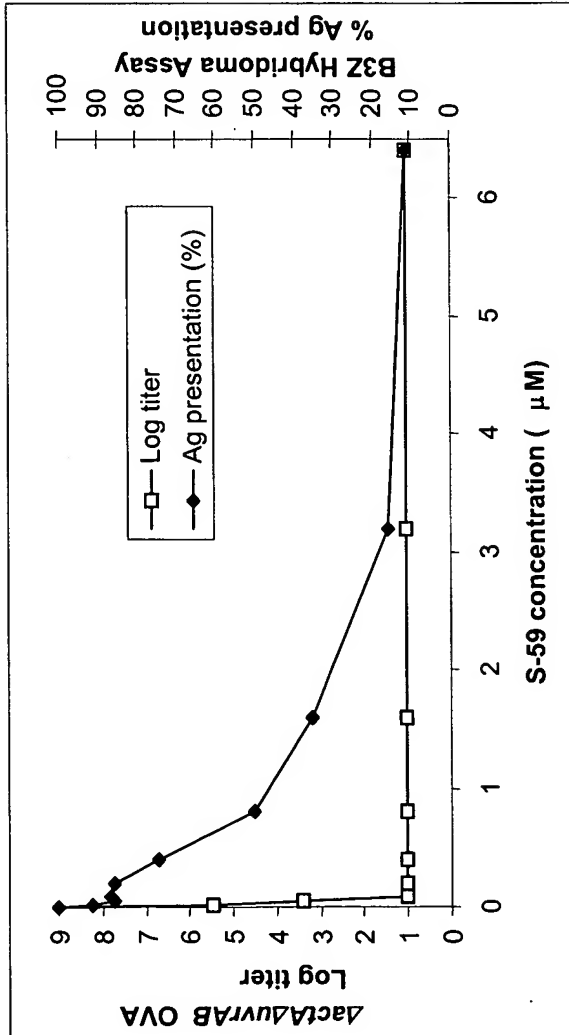


Figure 9D



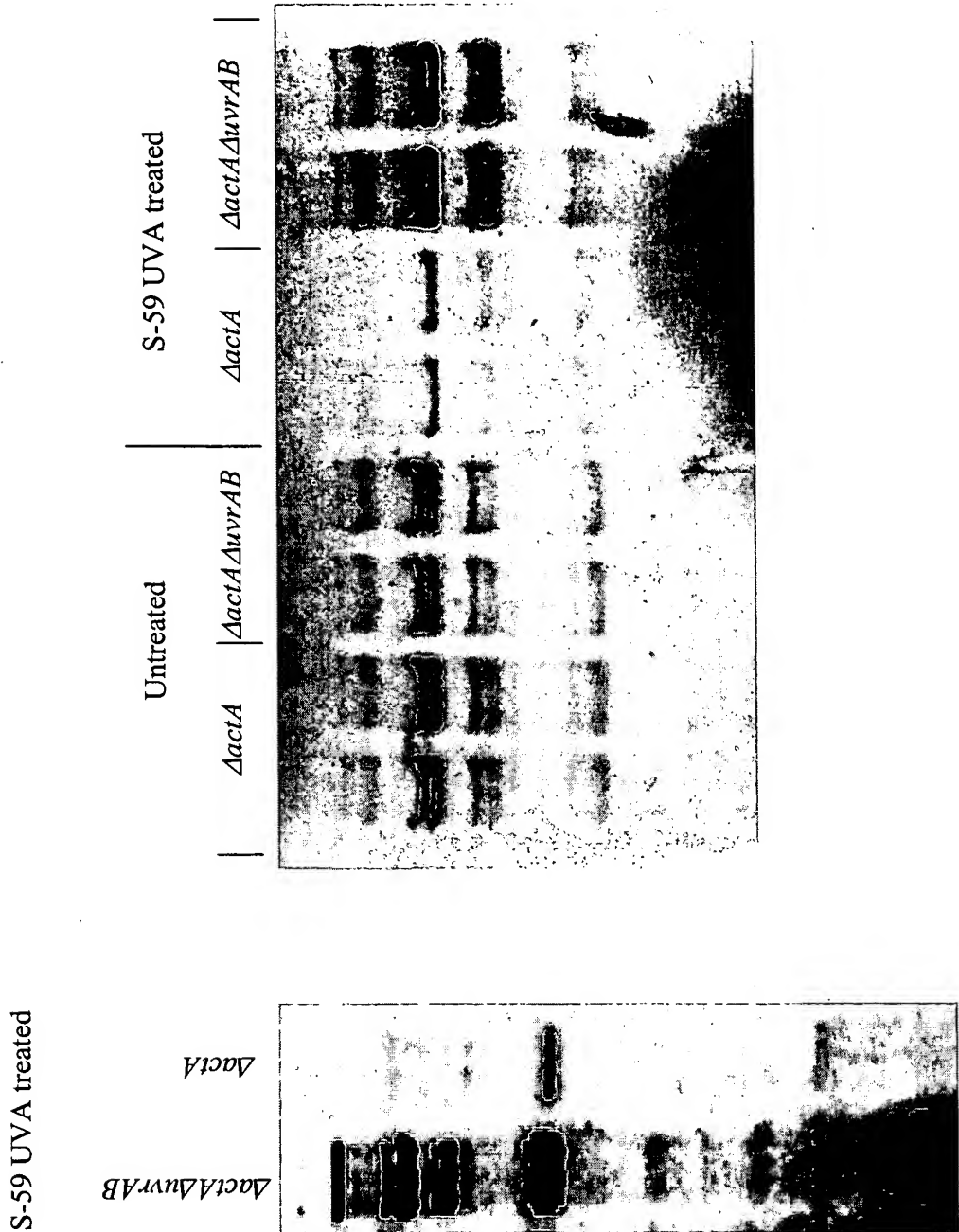


Figure 10

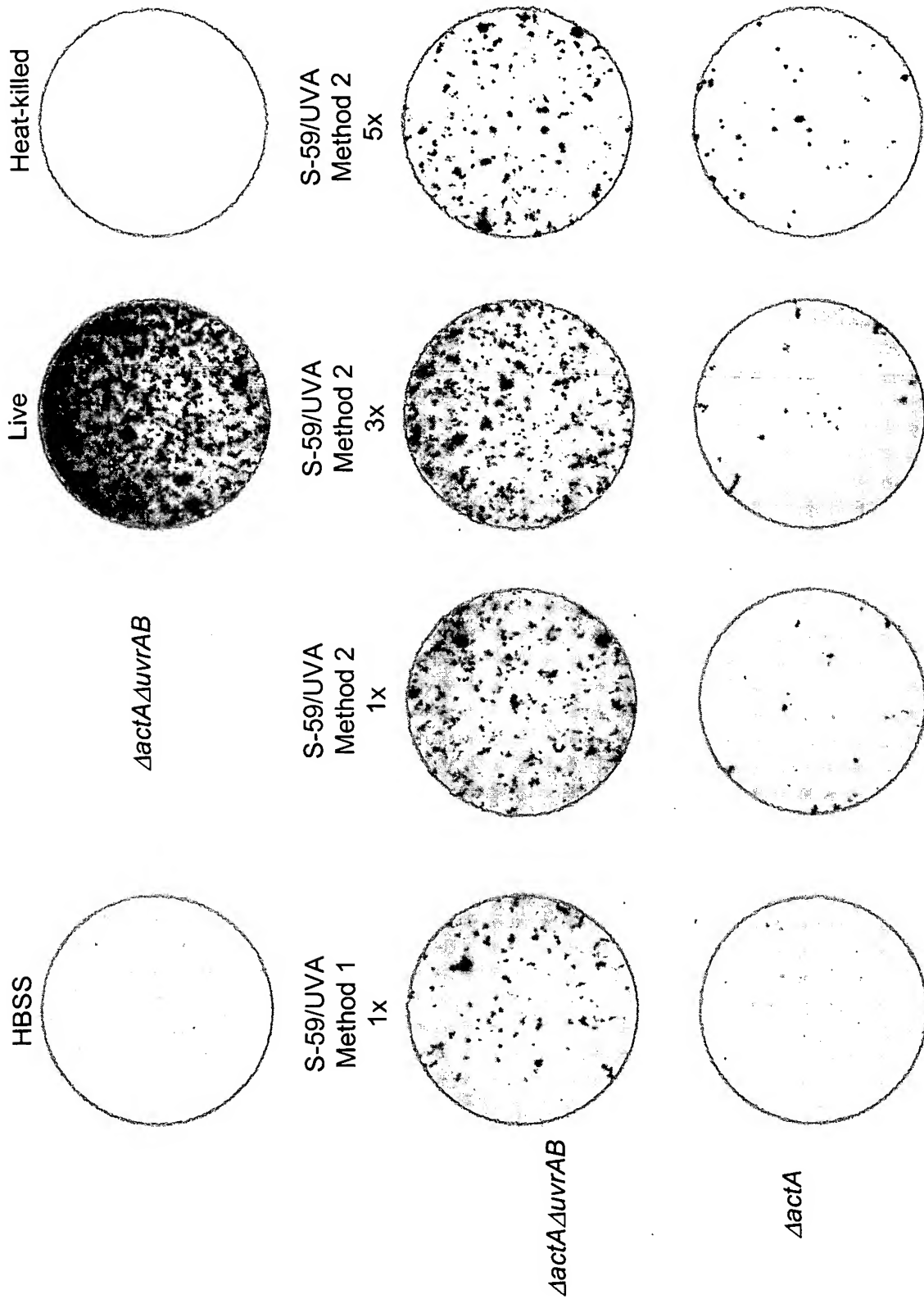


Figure 11A

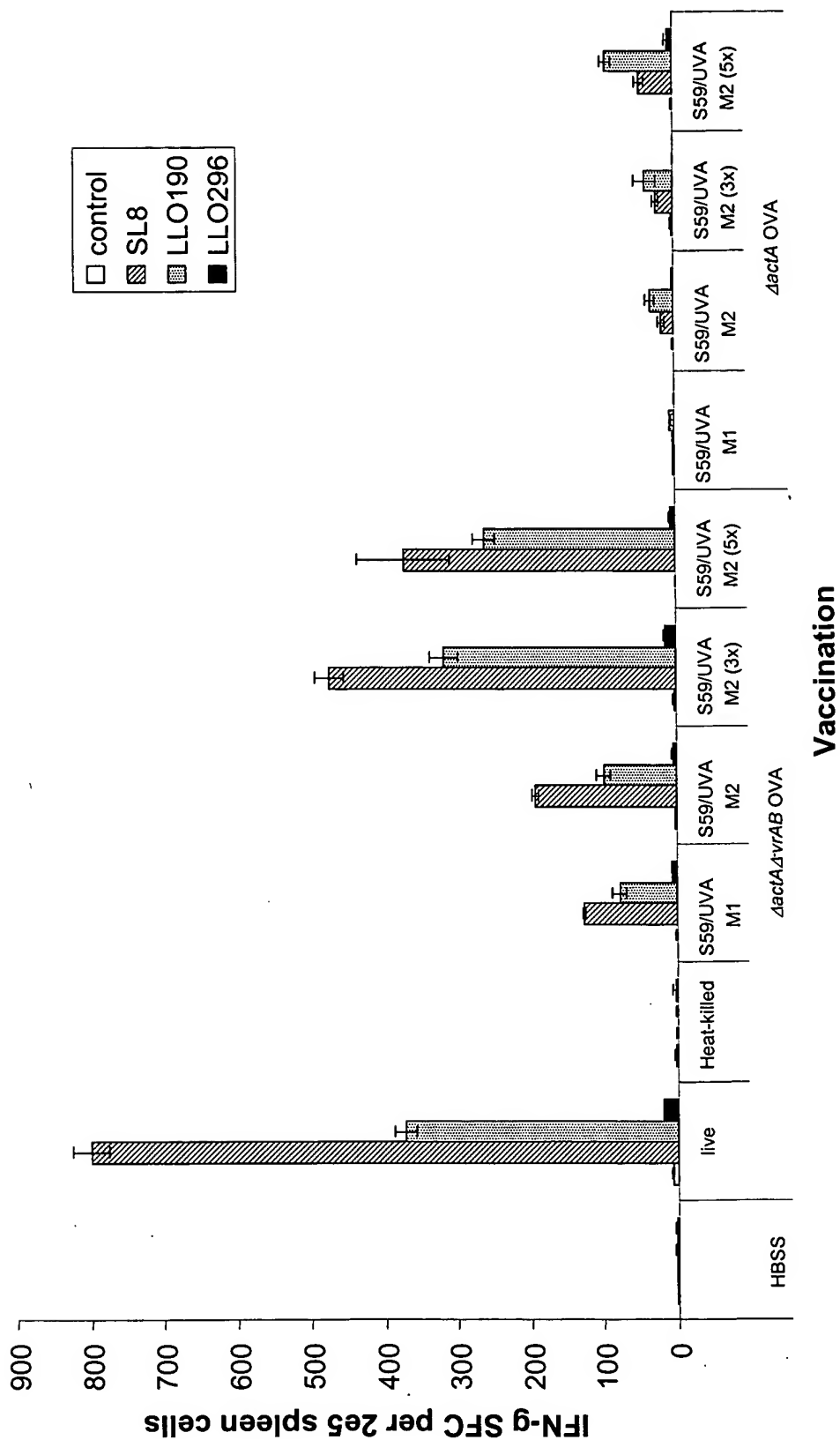


Figure 11B

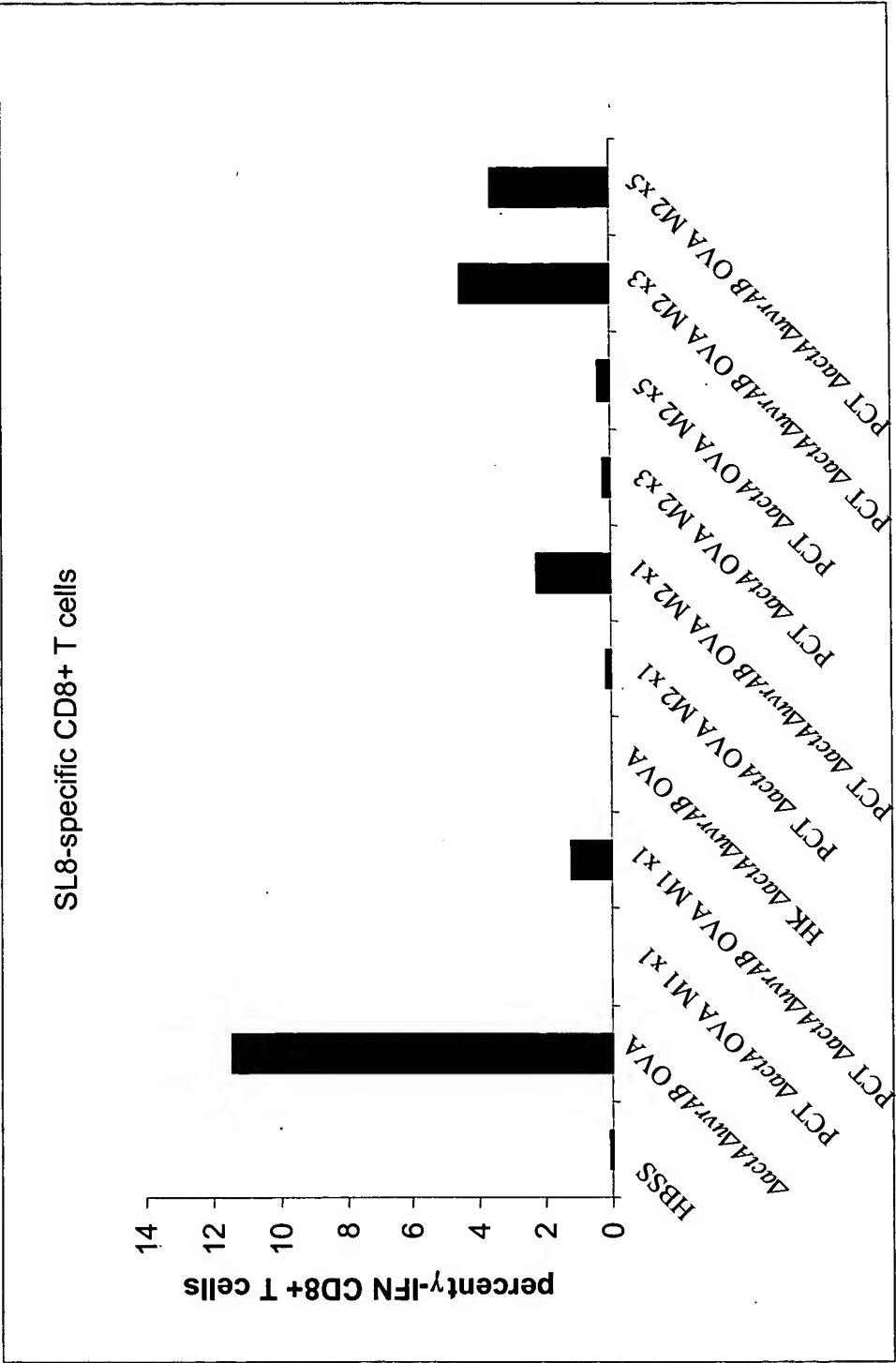


Figure 12A



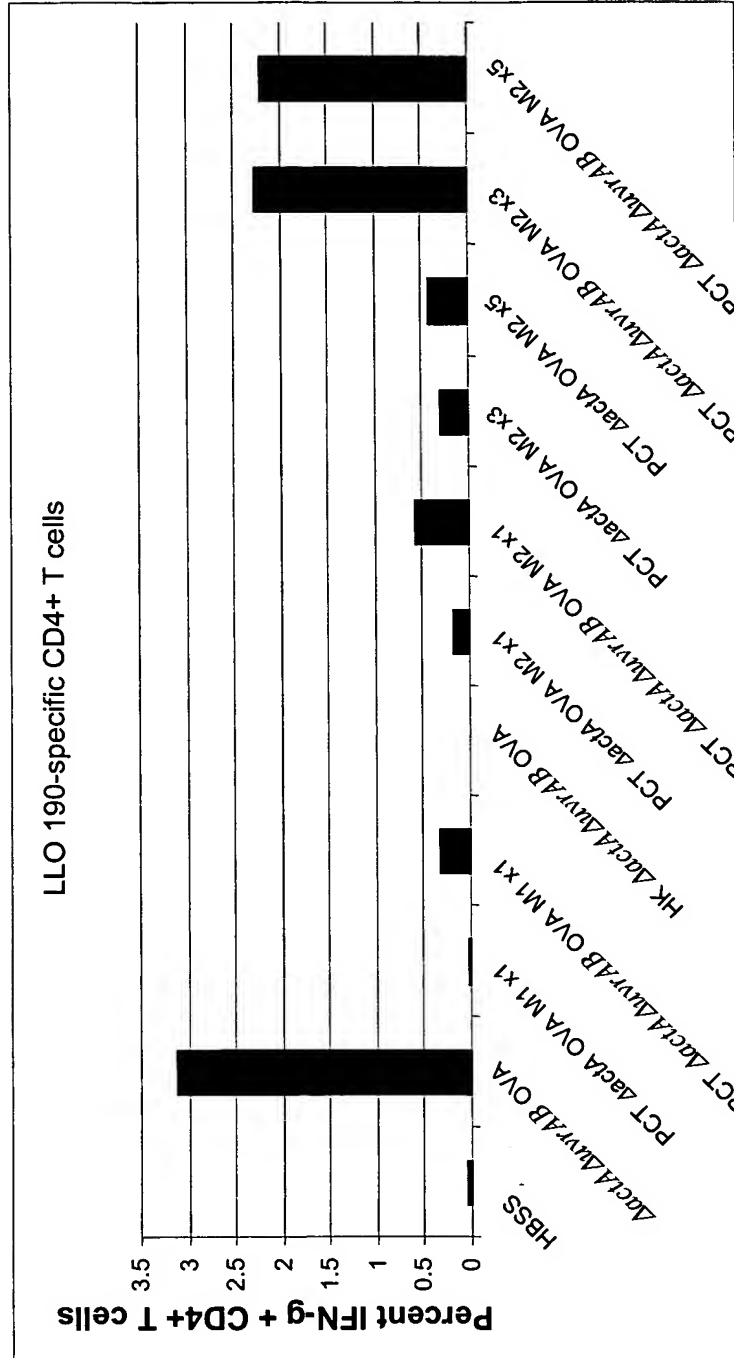


Figure 12B

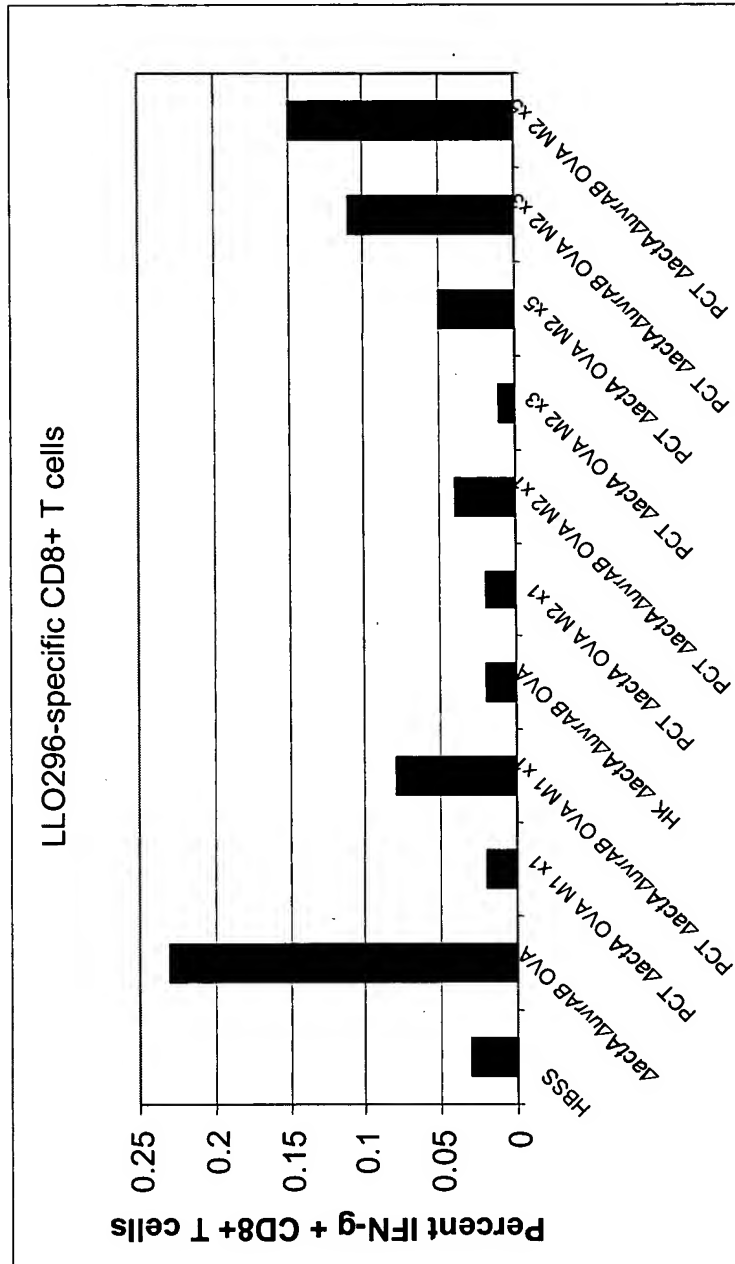


Figure 12C

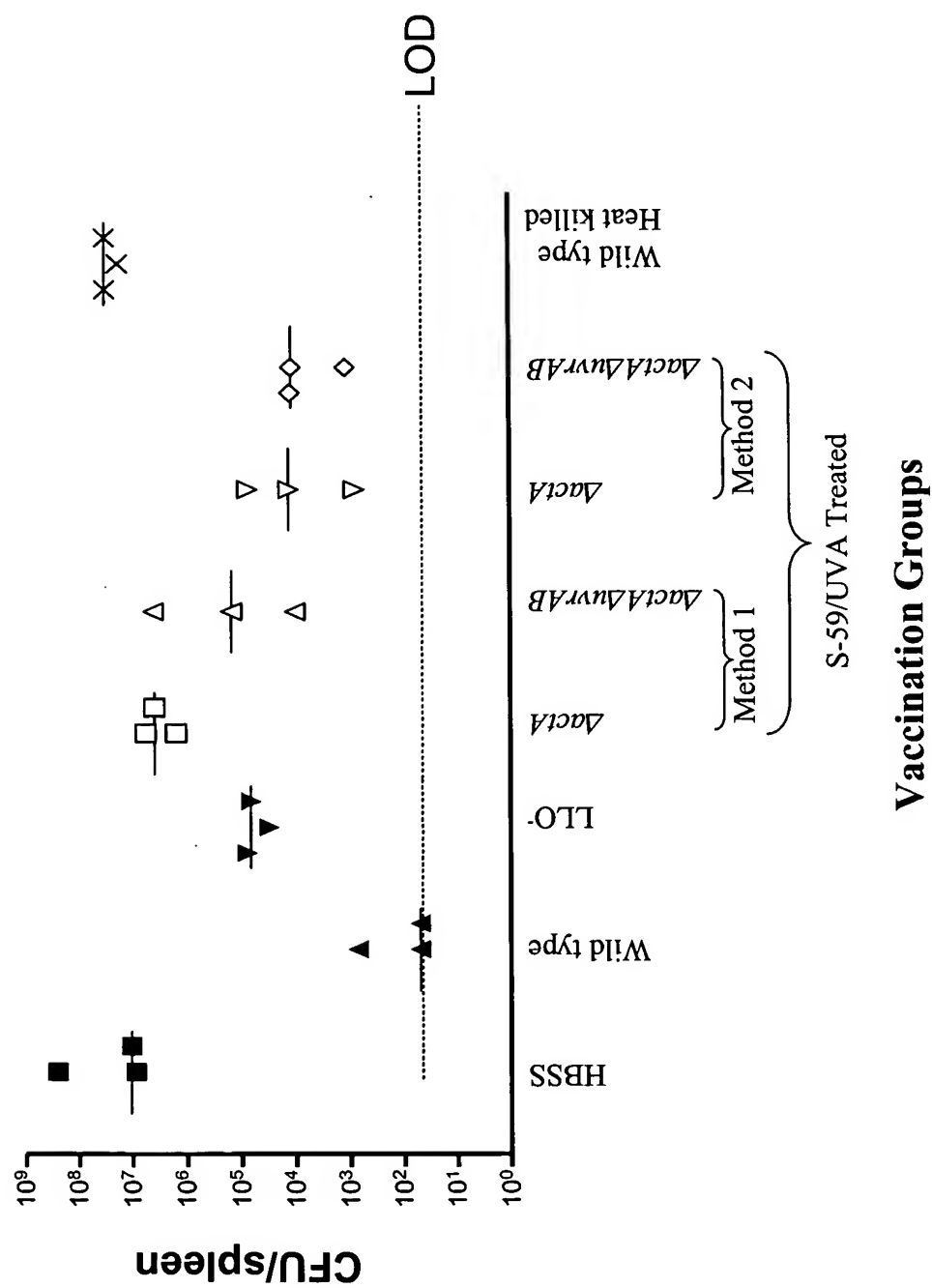


Figure 13A

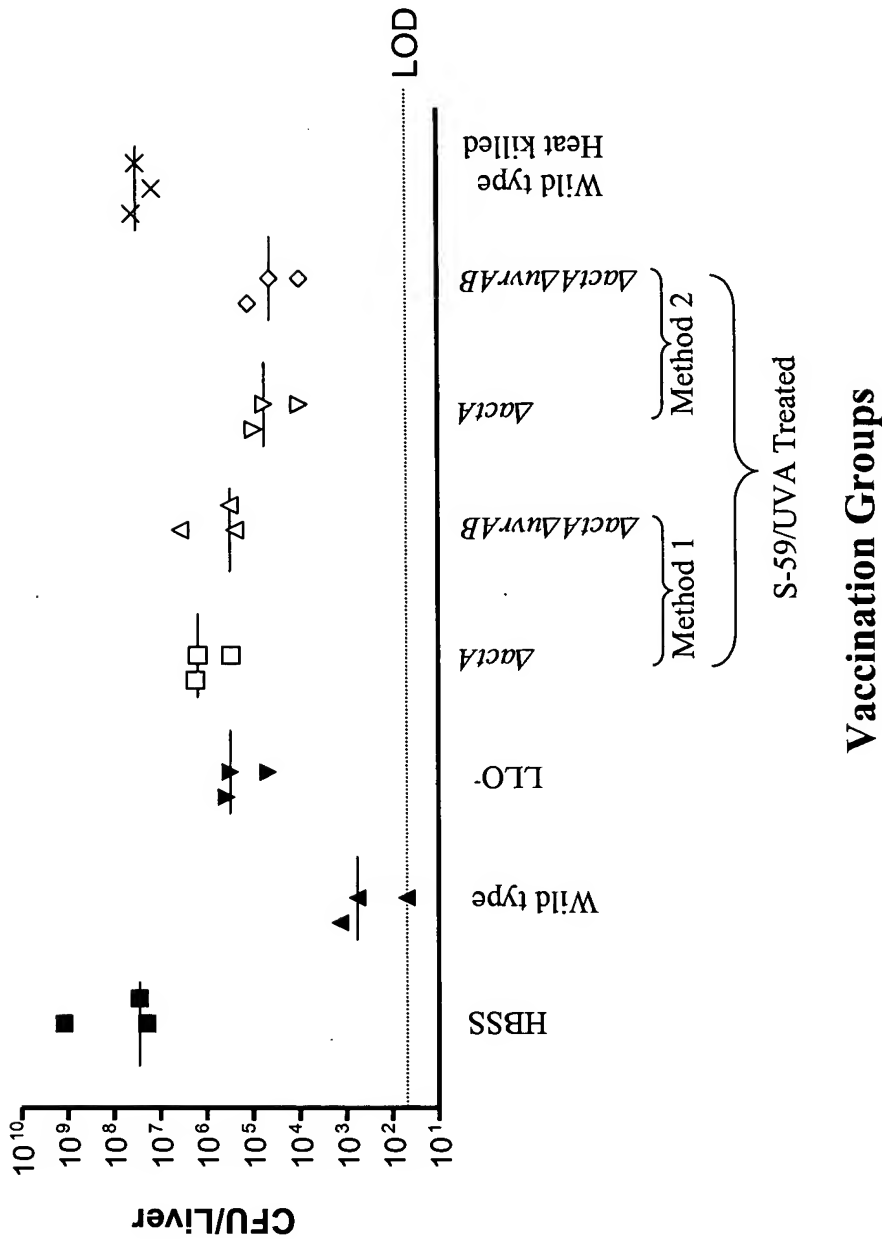


Figure 13B

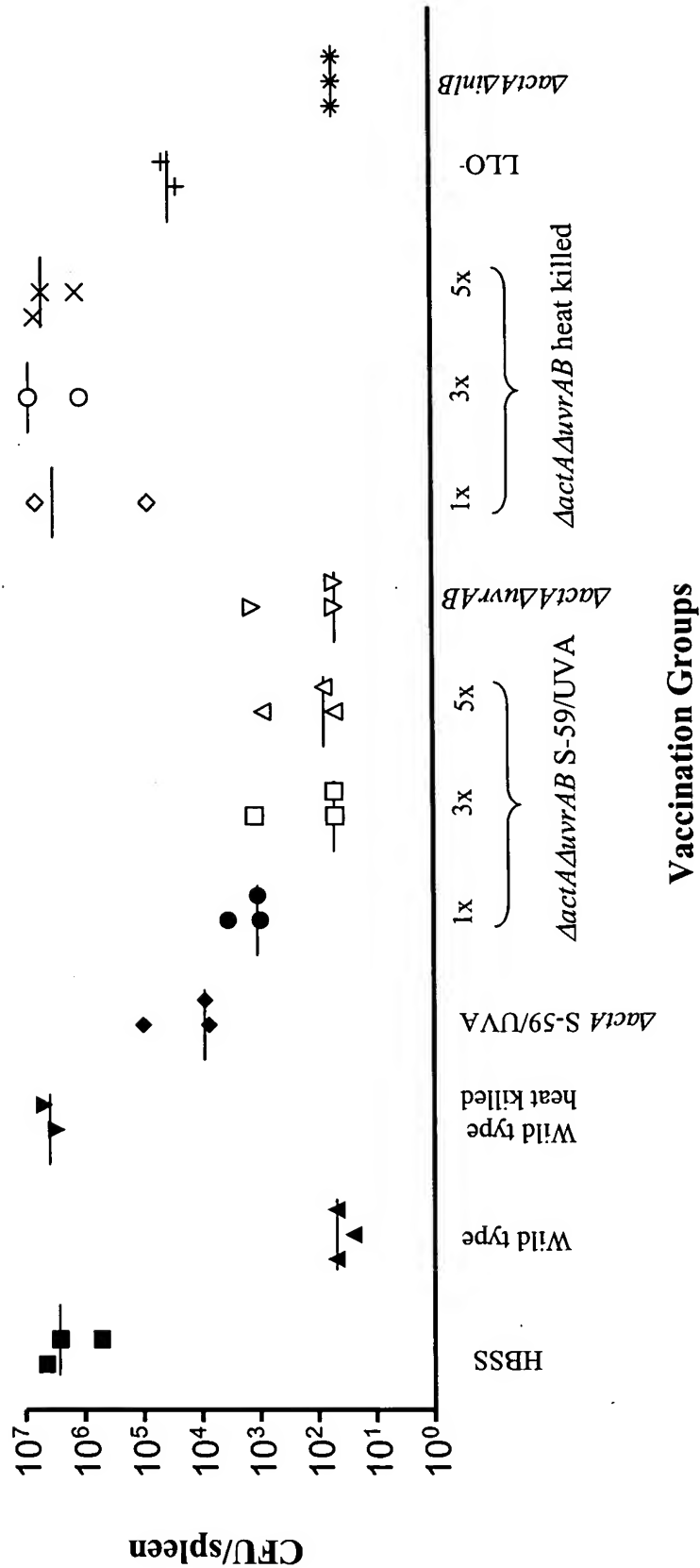


Figure 14A

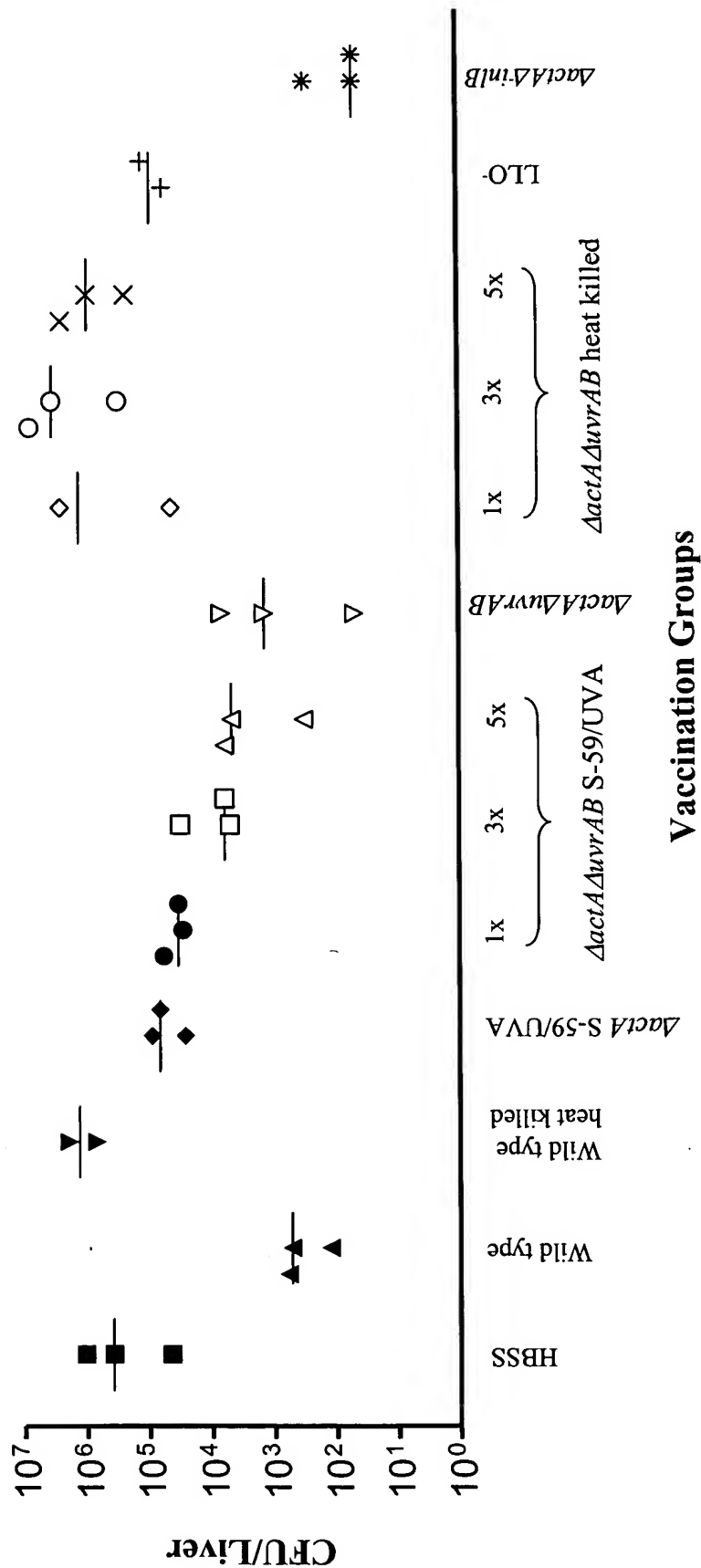


Figure 14B

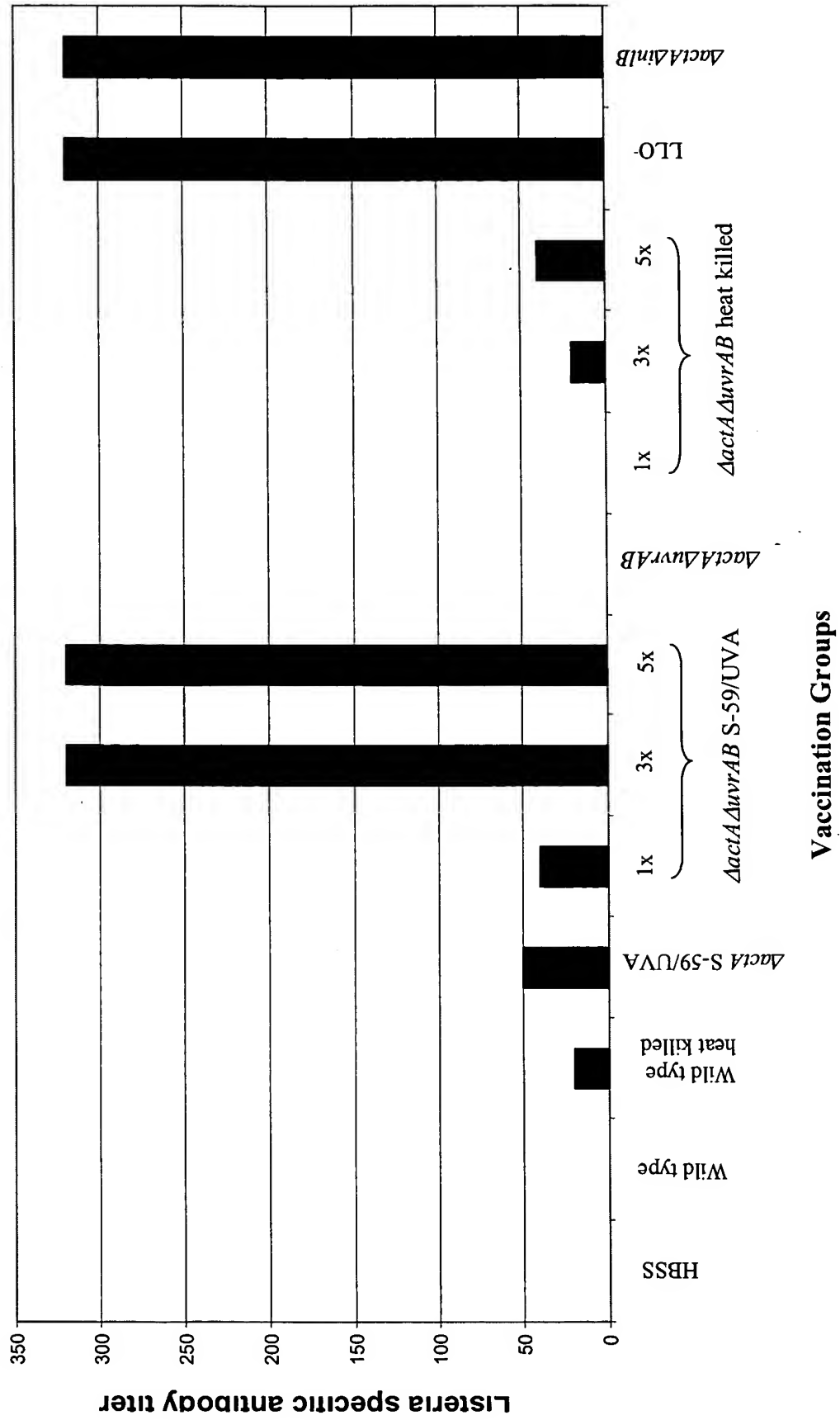


Figure 15

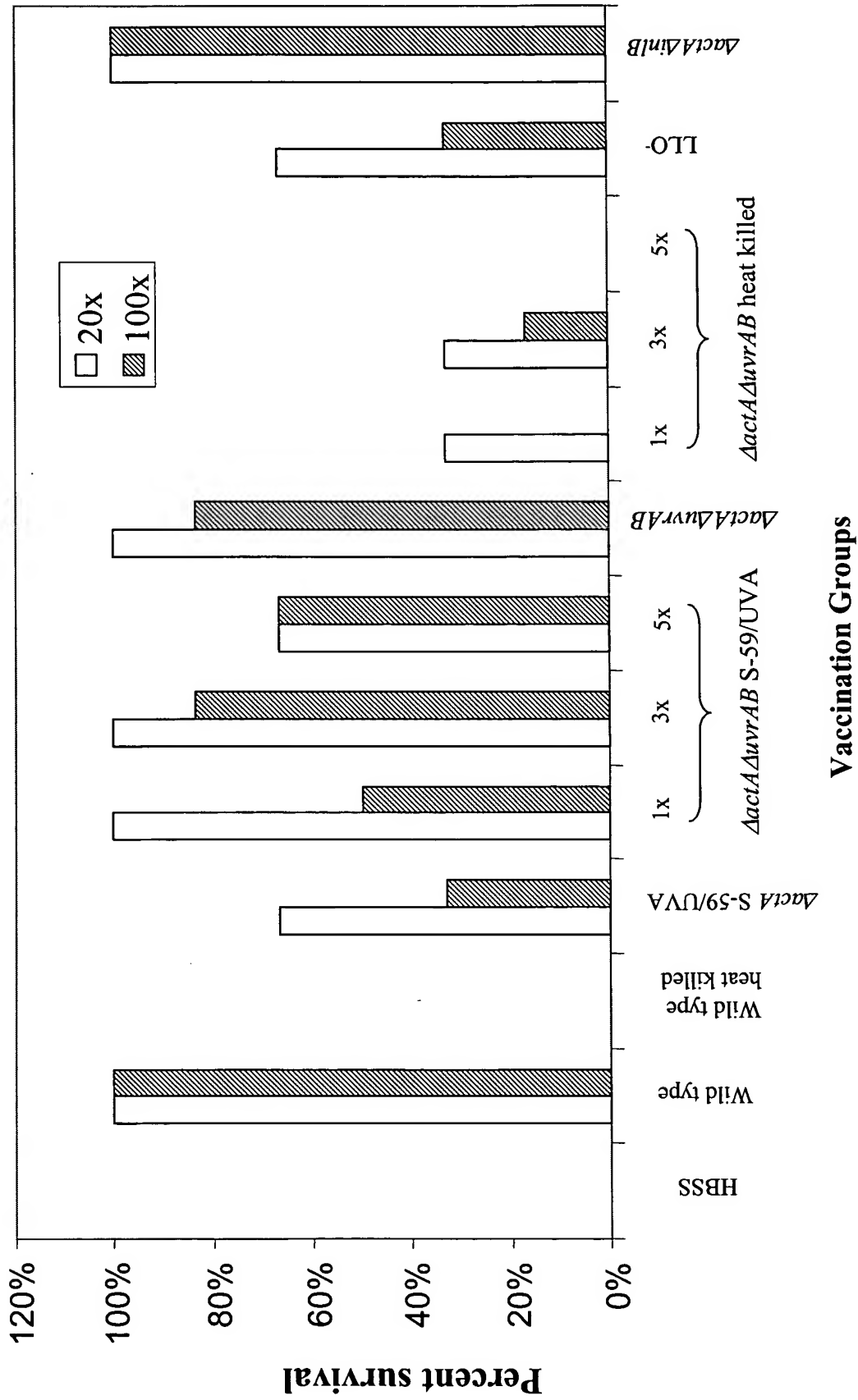


Figure 16



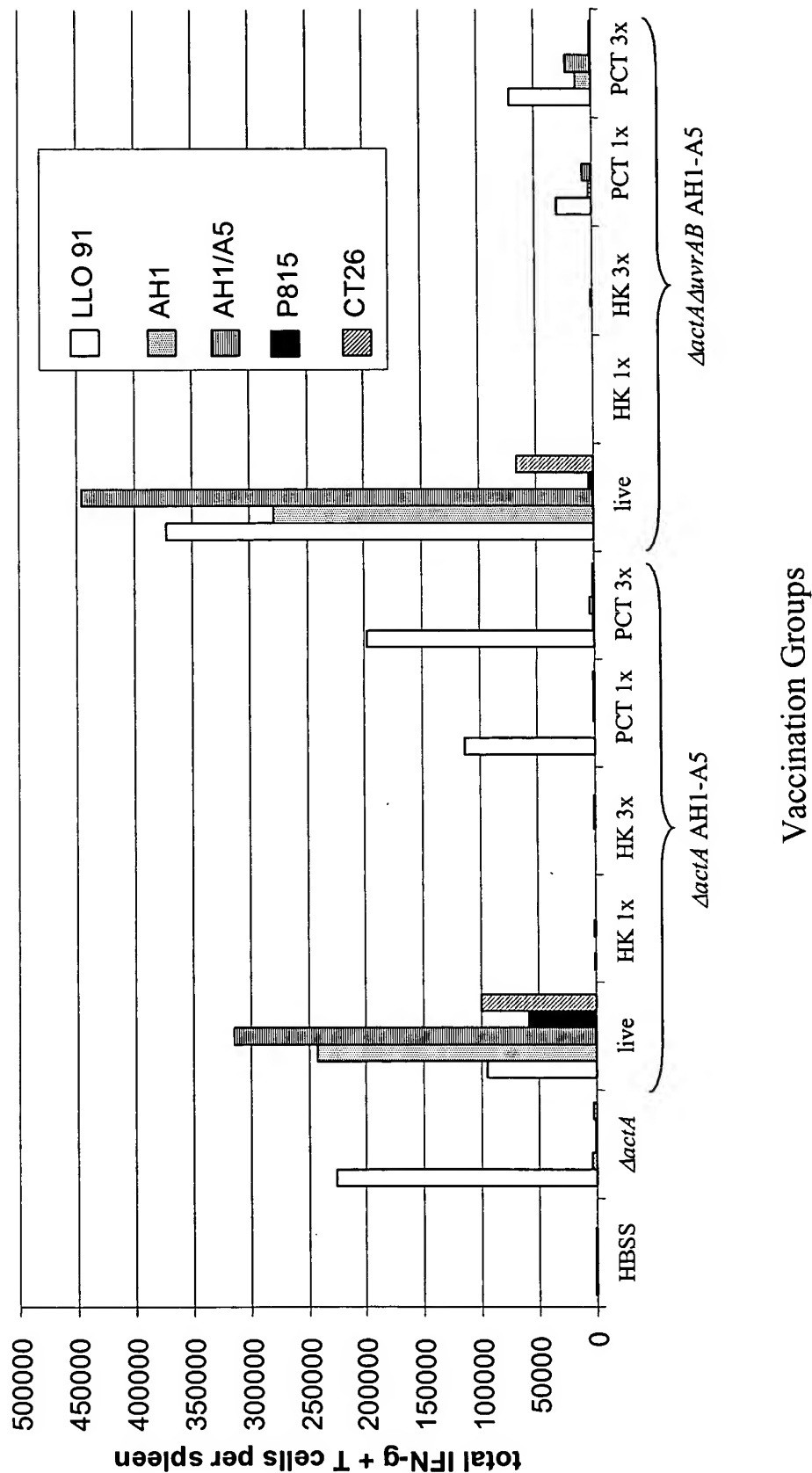


Figure 17

# ELISPOT for AH1/A5-specific T cells

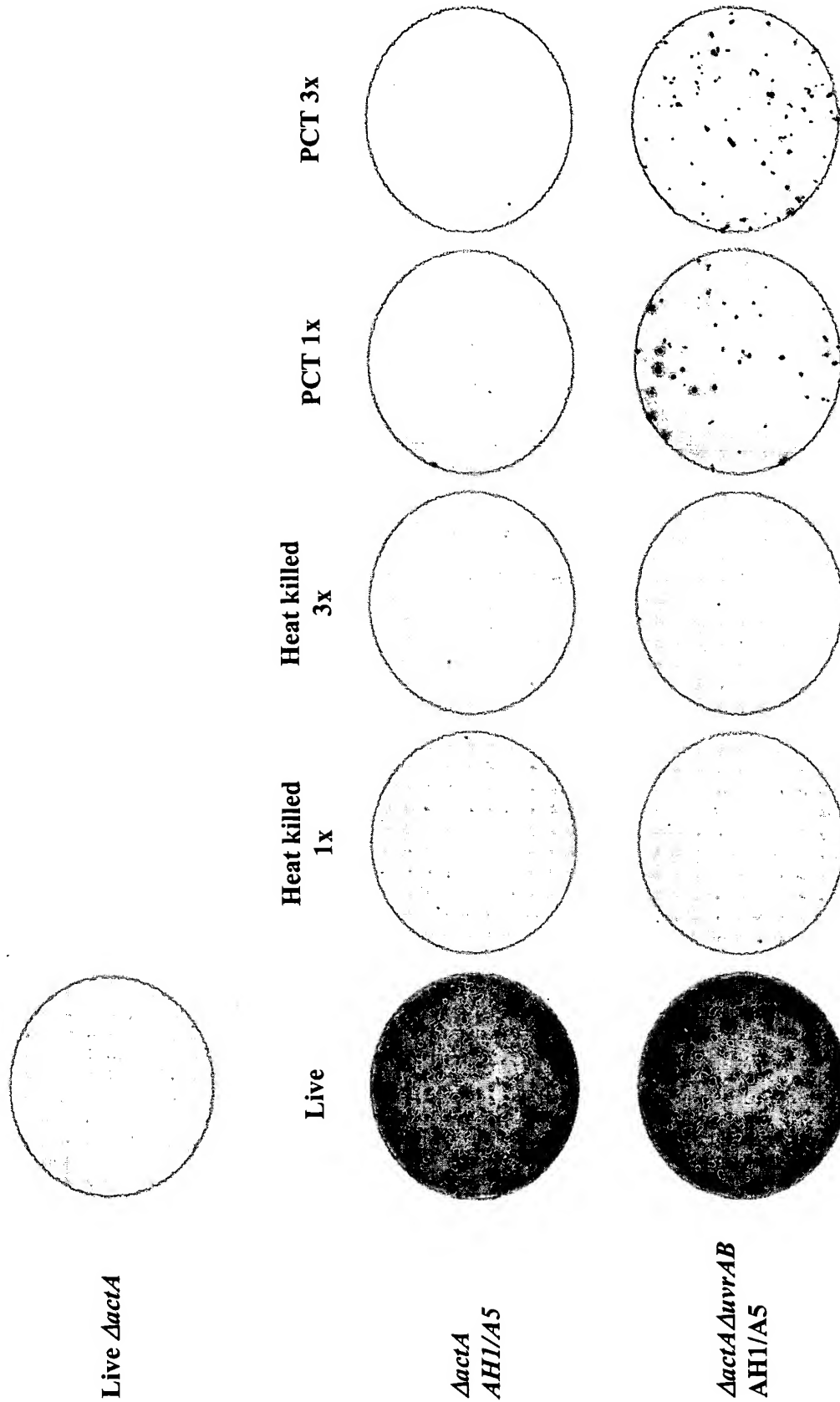


Figure 18A

# ELISPOT for AH1-specific T cells

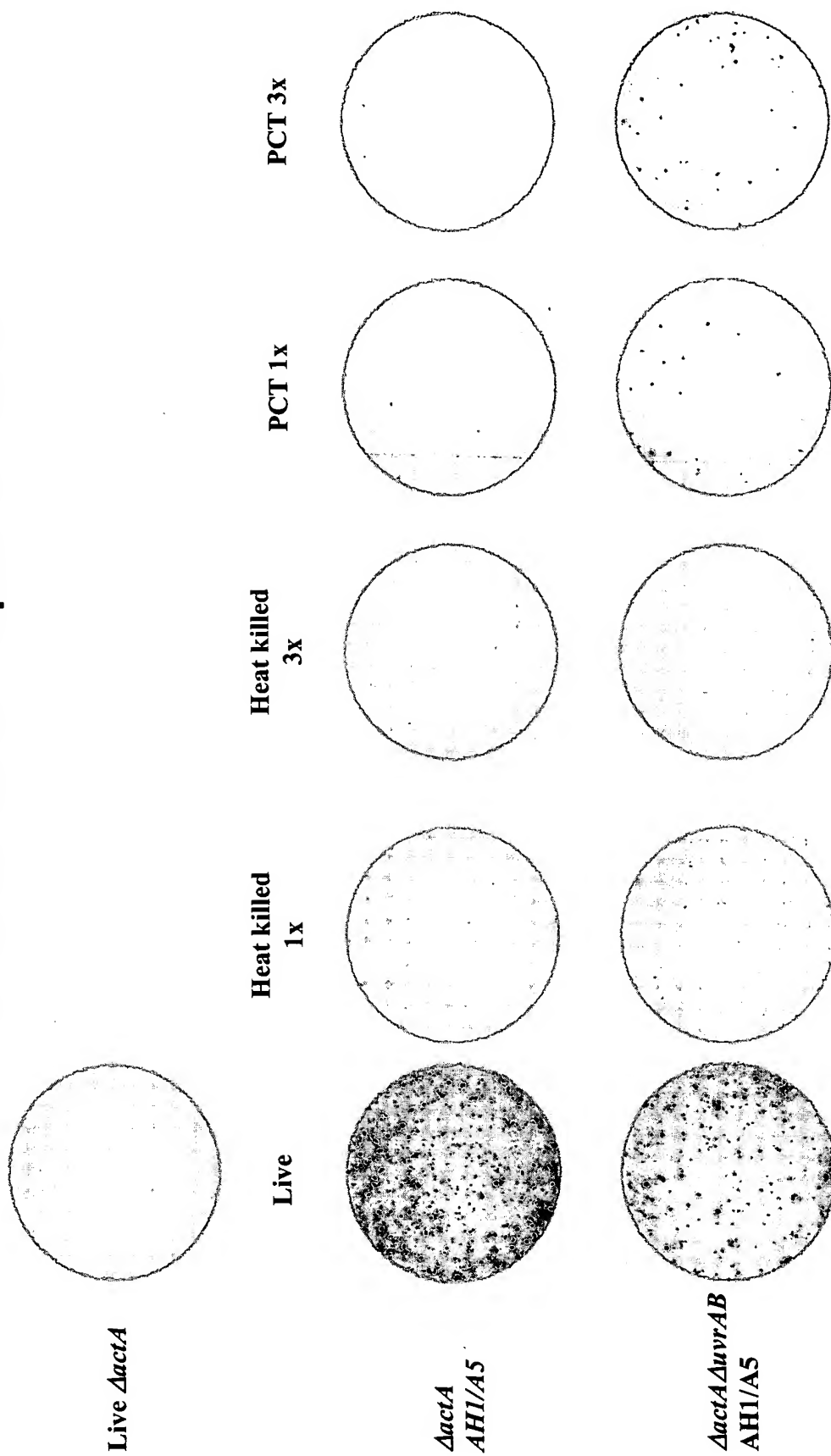


Figure 18B

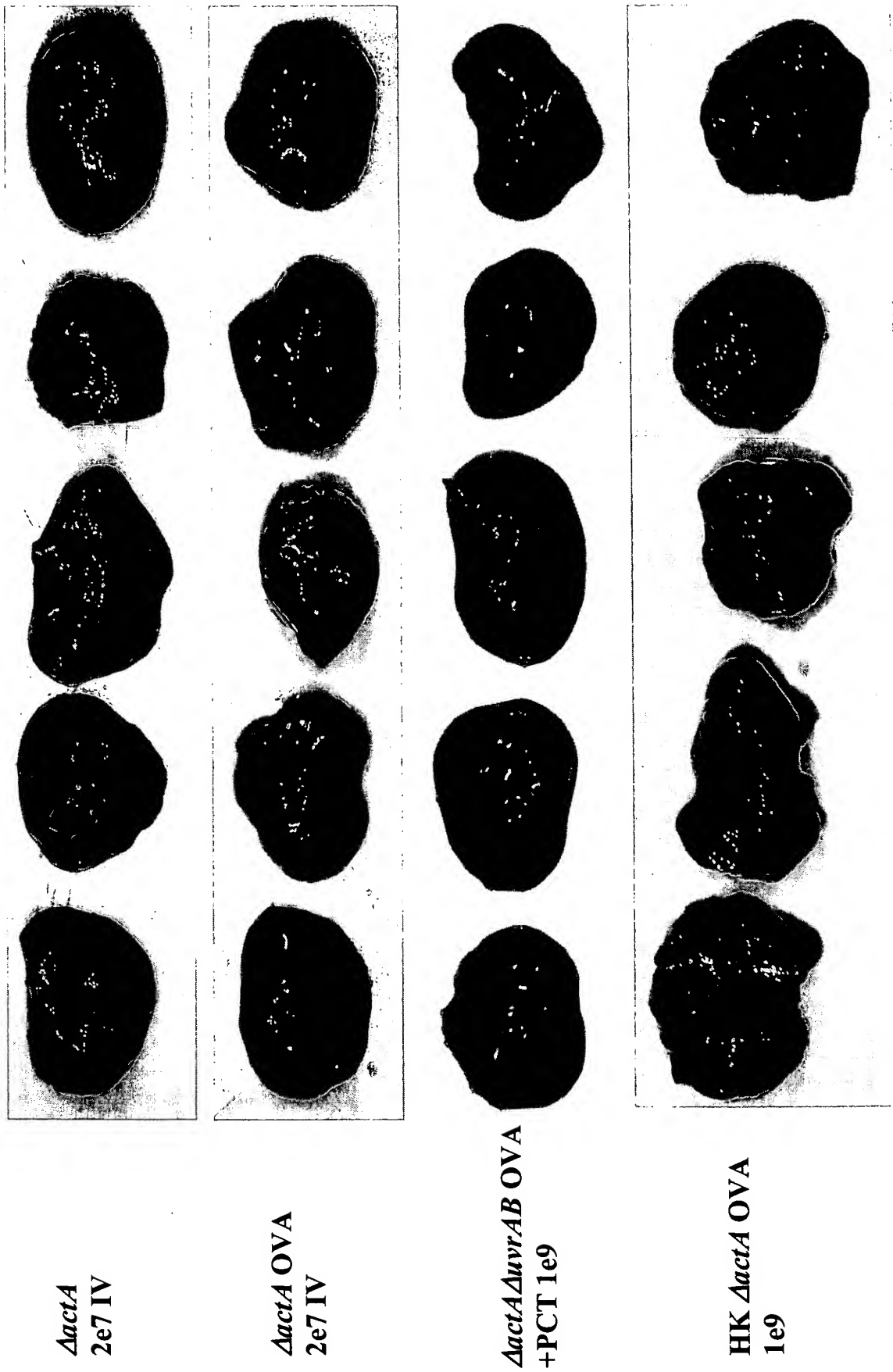


Figure 19A

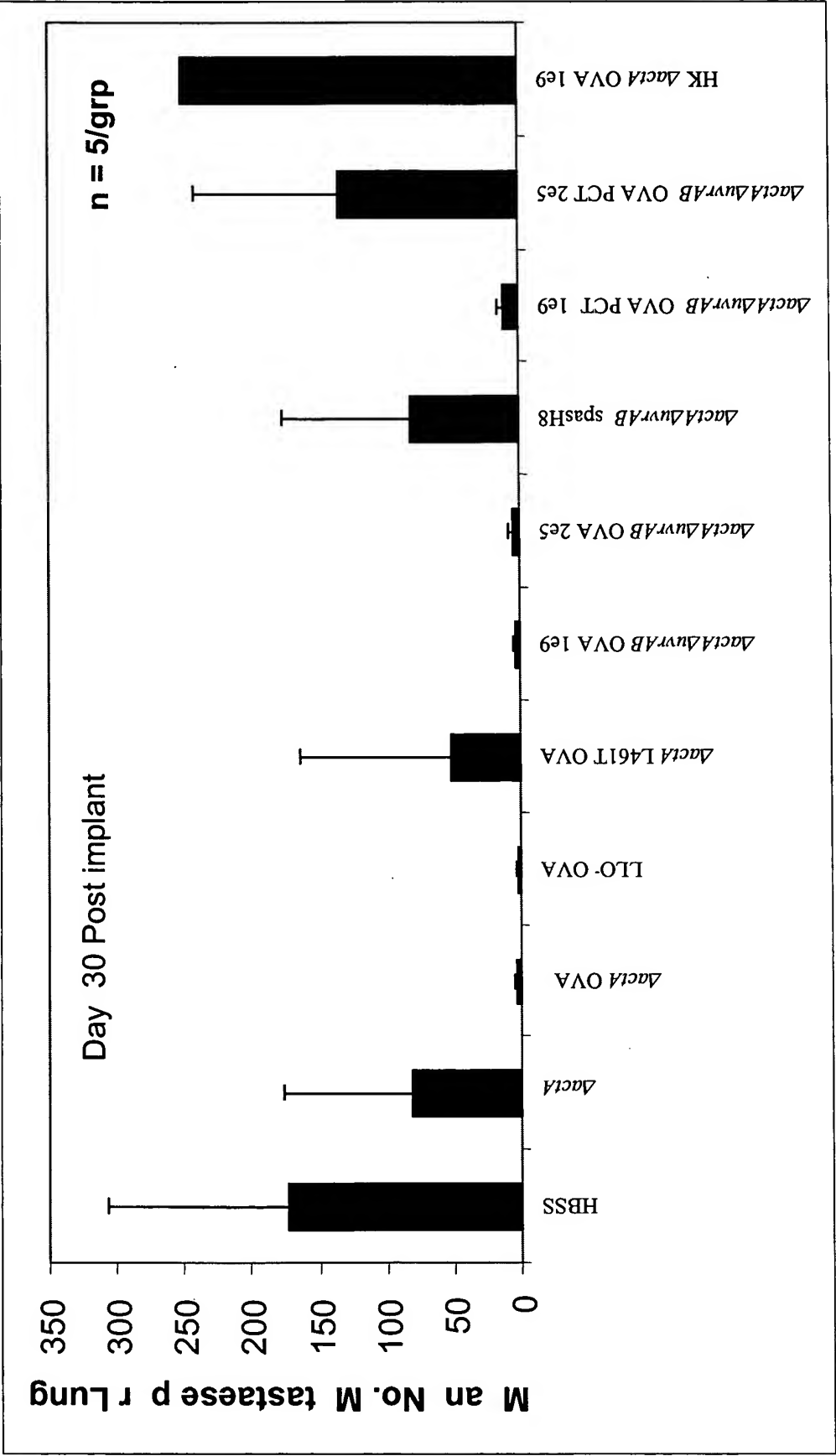


Figure 19B

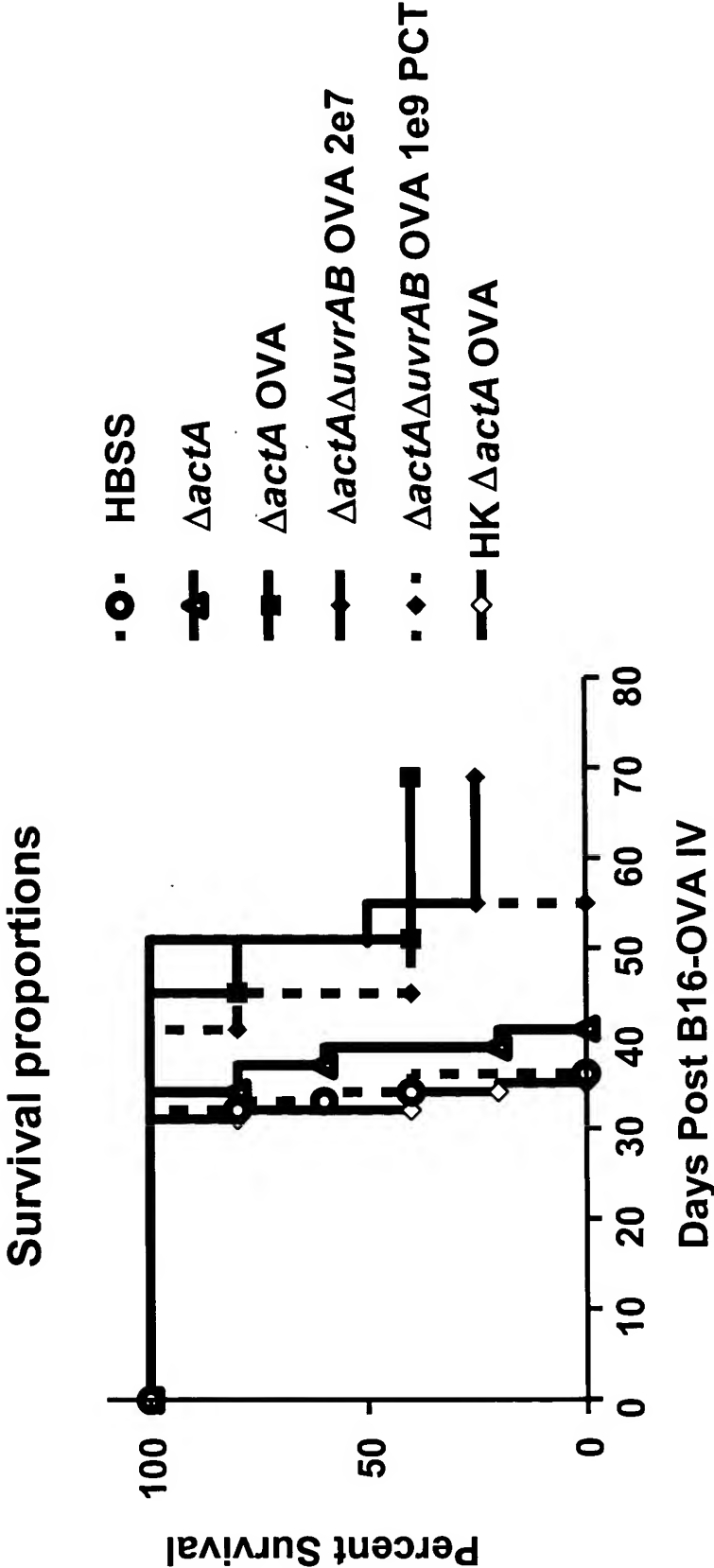


Figure 19C

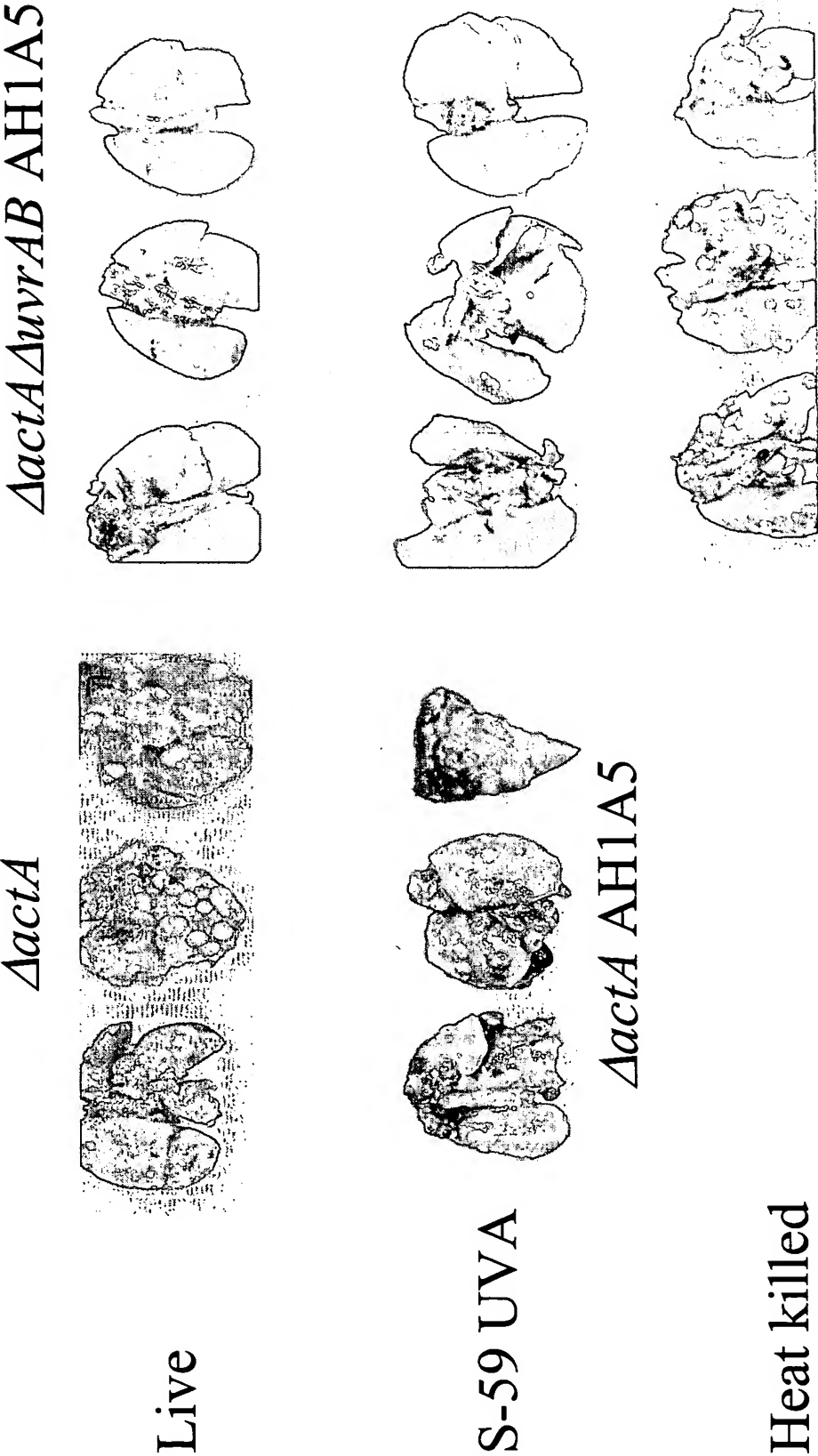


Figure 20A

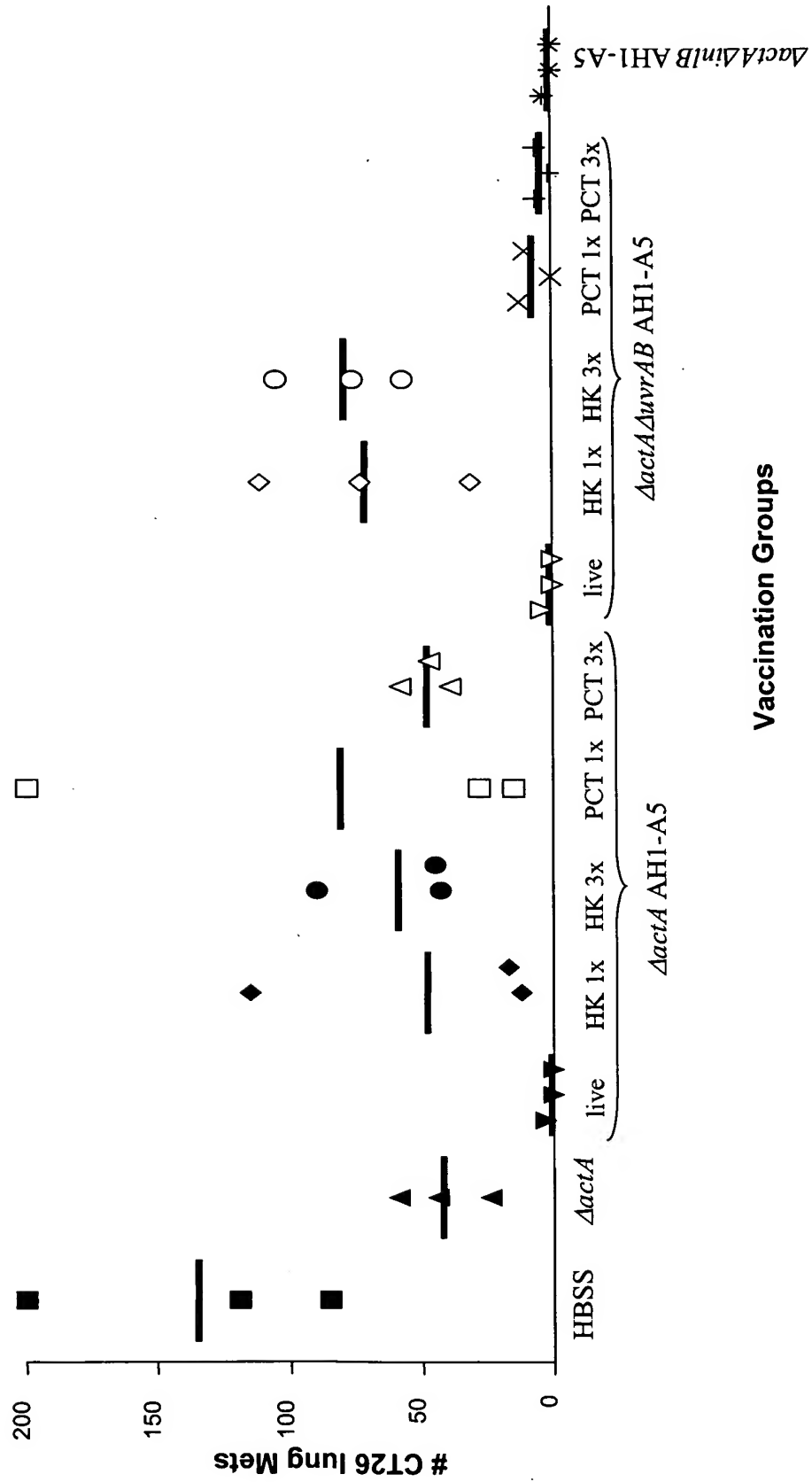


Figure 20B



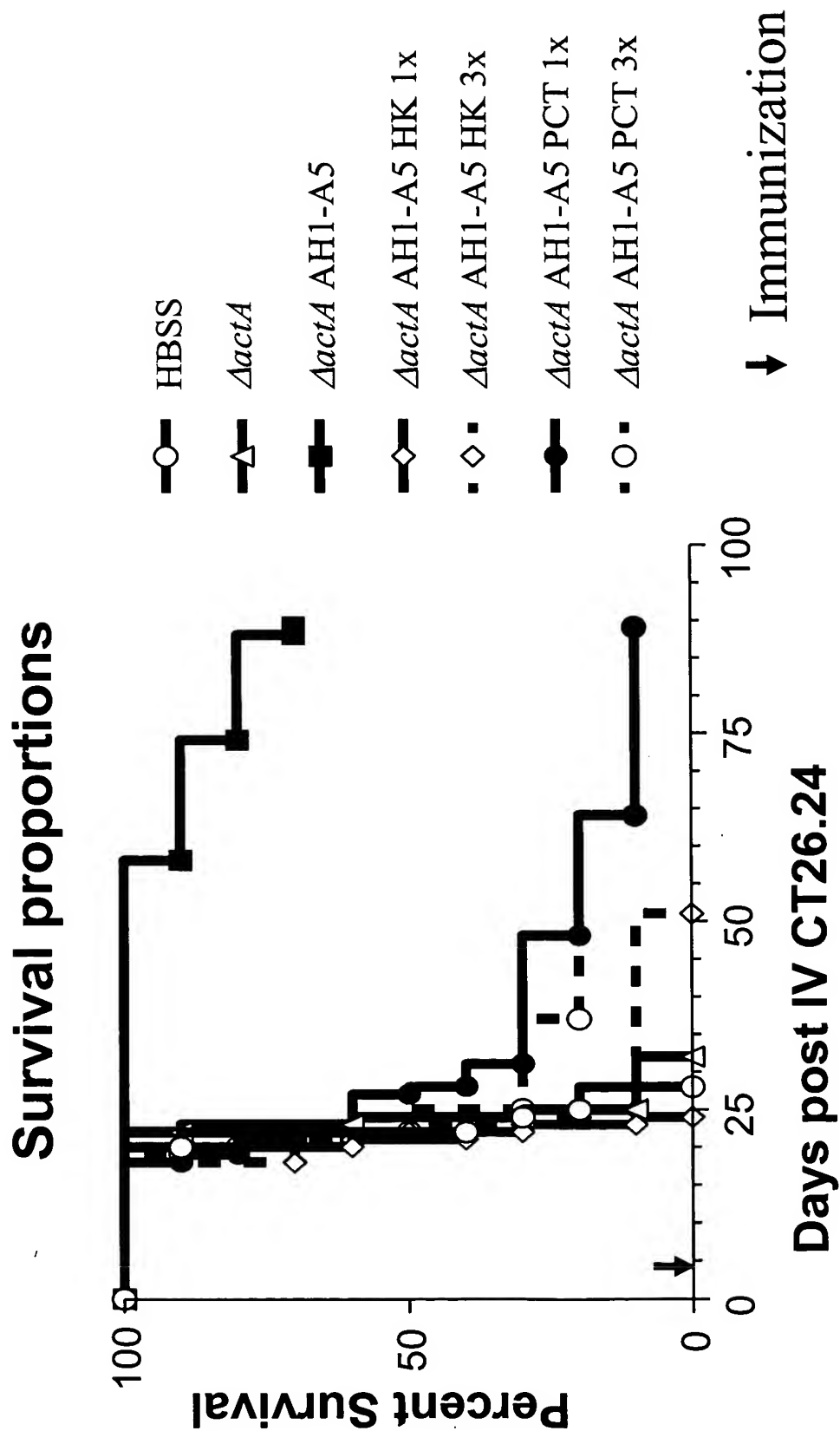


Figure 20C

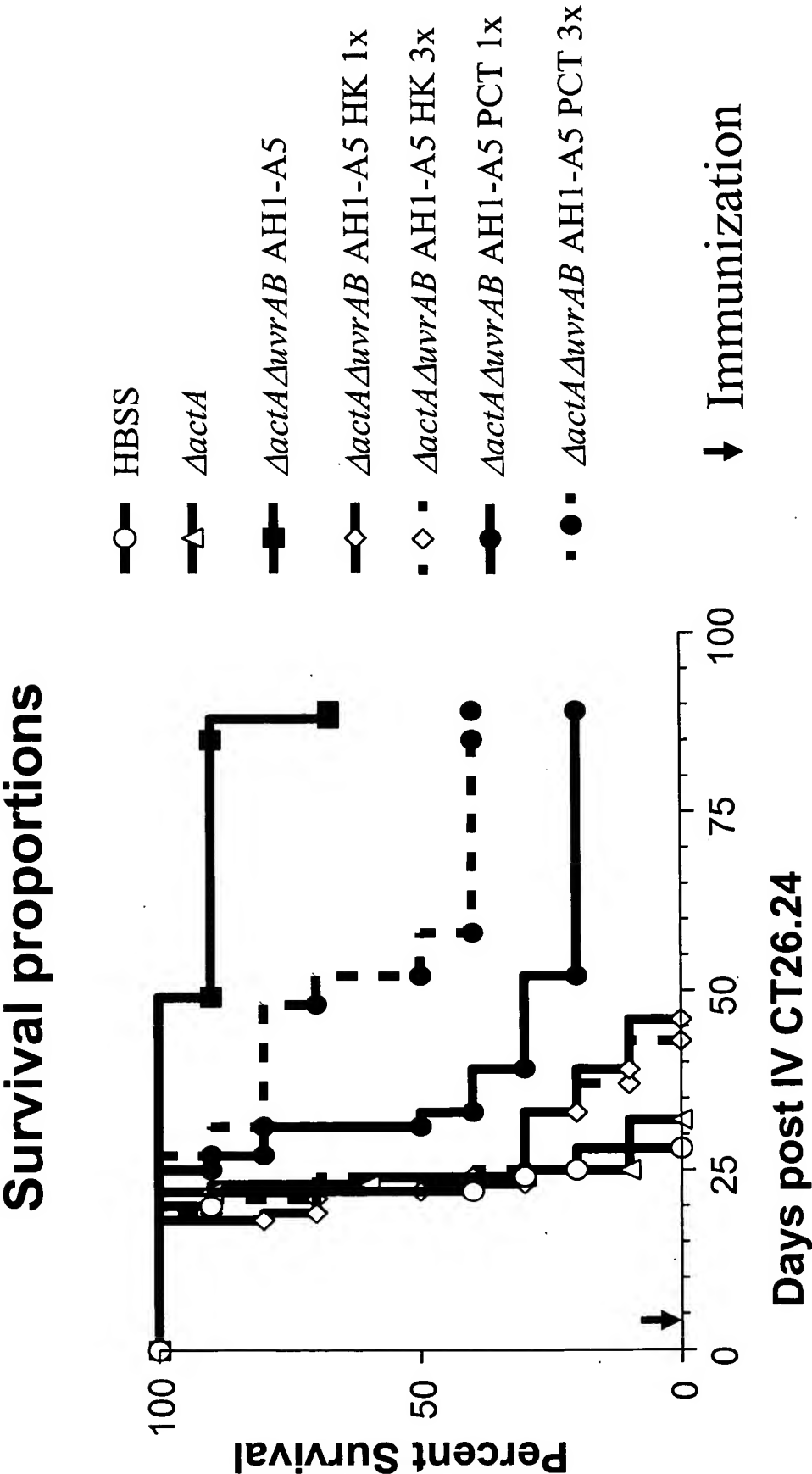
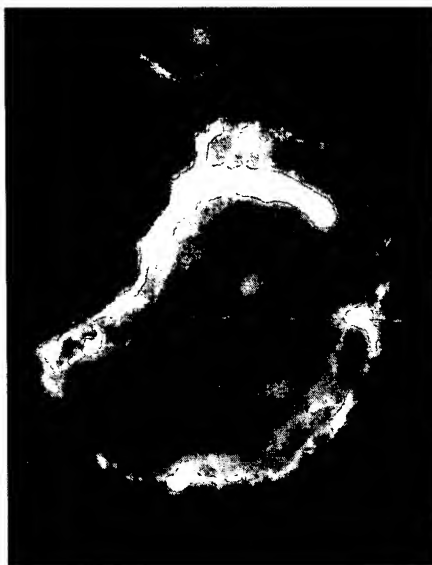
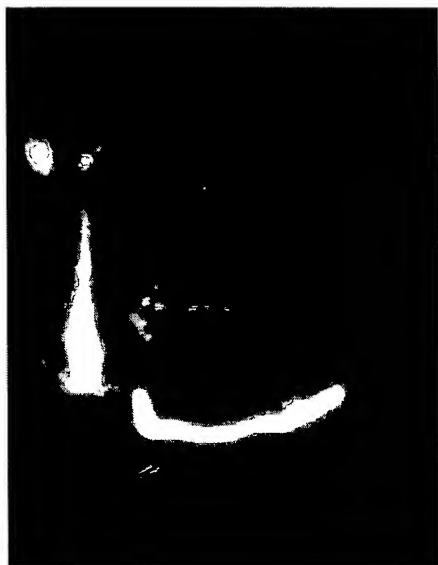


Figure 20D

RHODAMINE IMAGE



MERGED IMAGE



Listeria in phagolysosome,  
not detected in Rhodamine image

Figure 21A

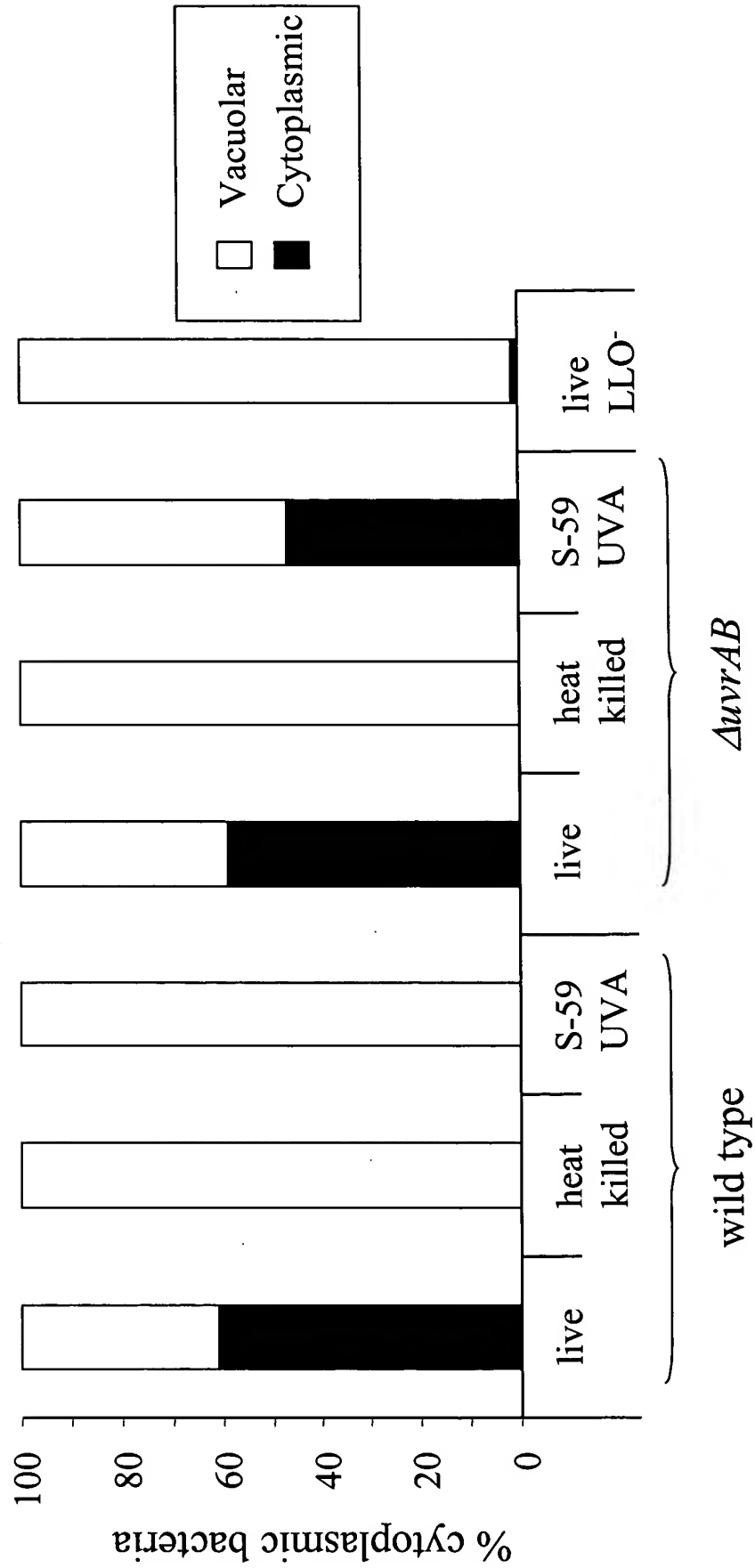


Figure 21B

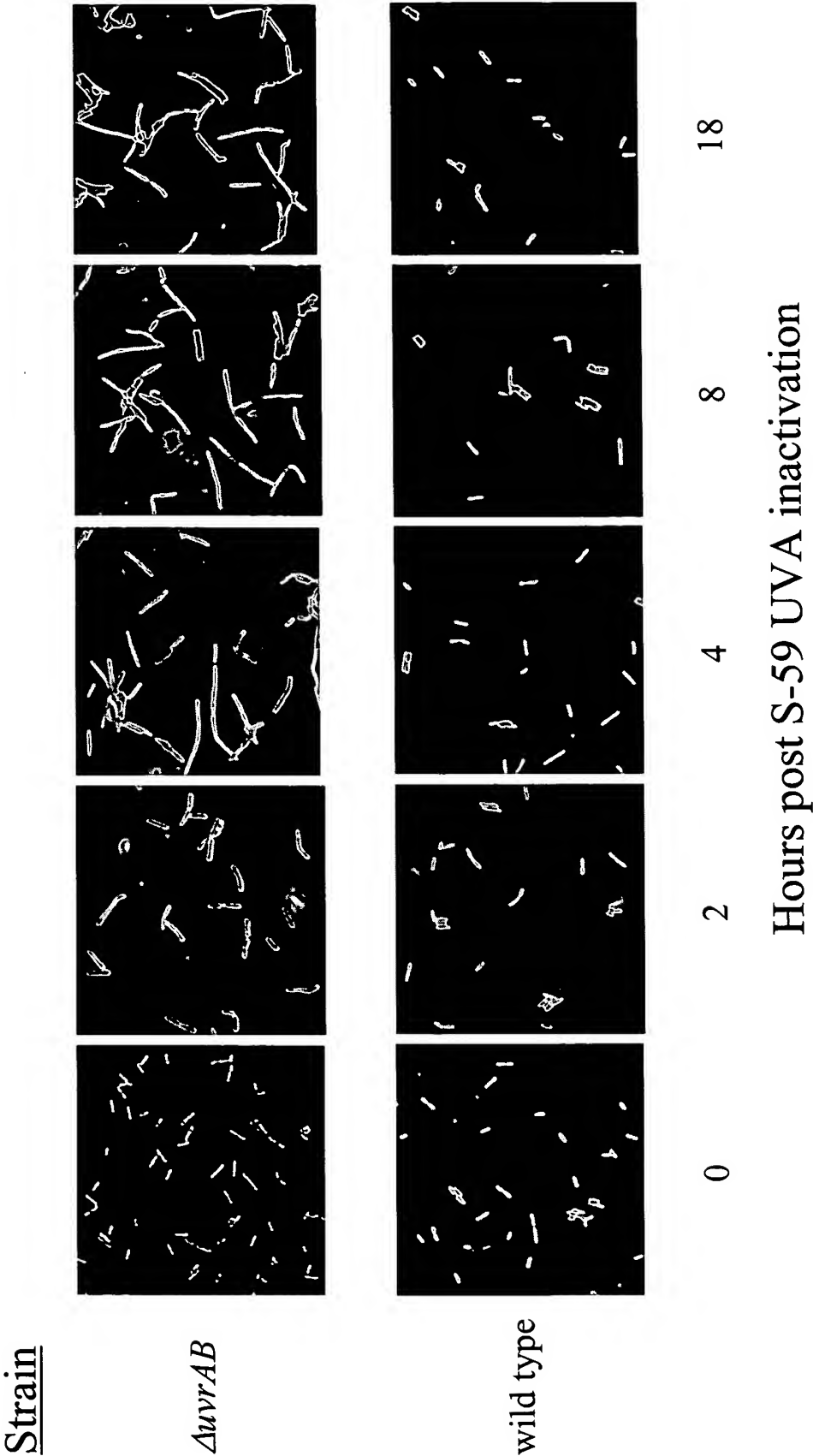


Figure 22

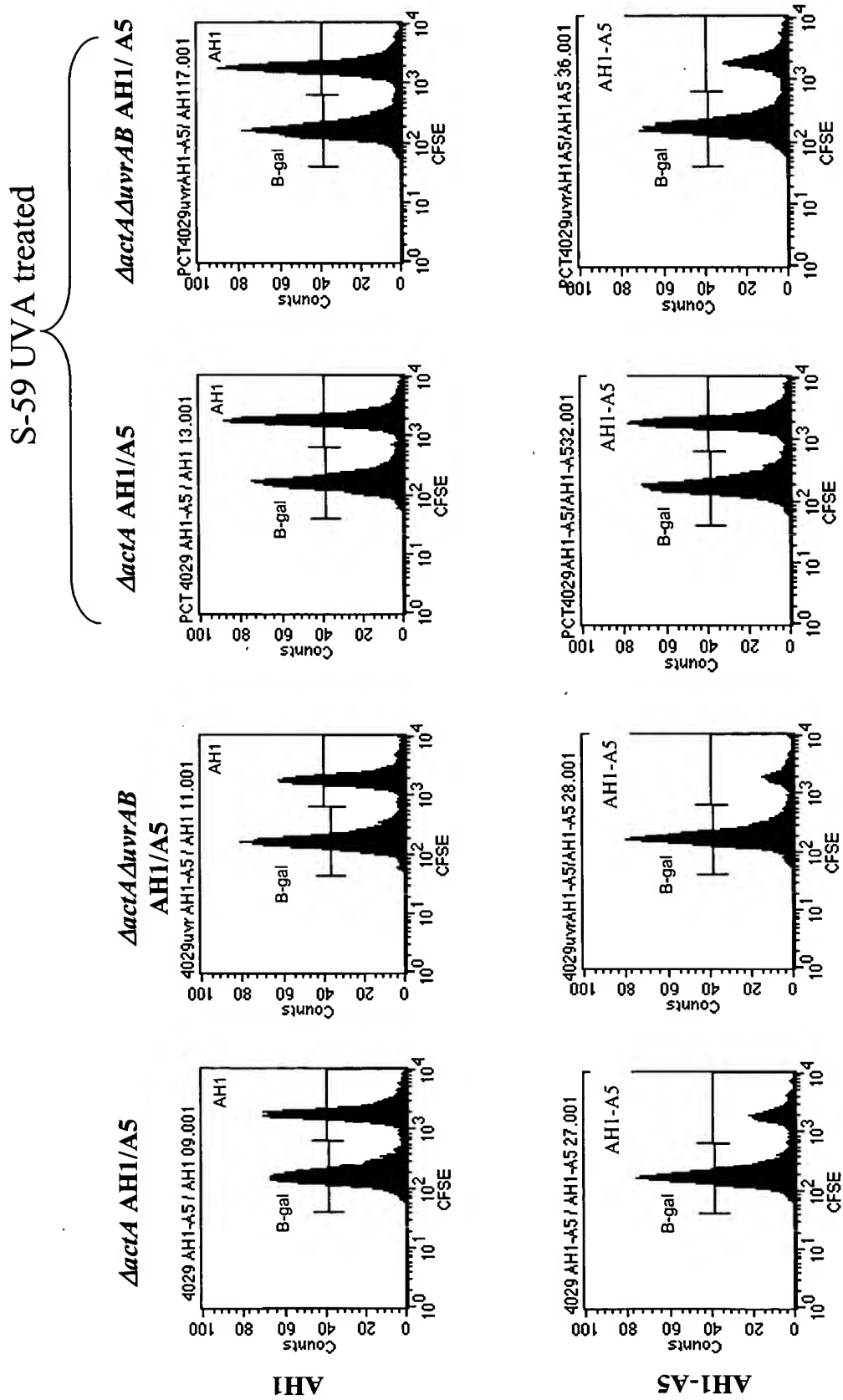


Figure 23A

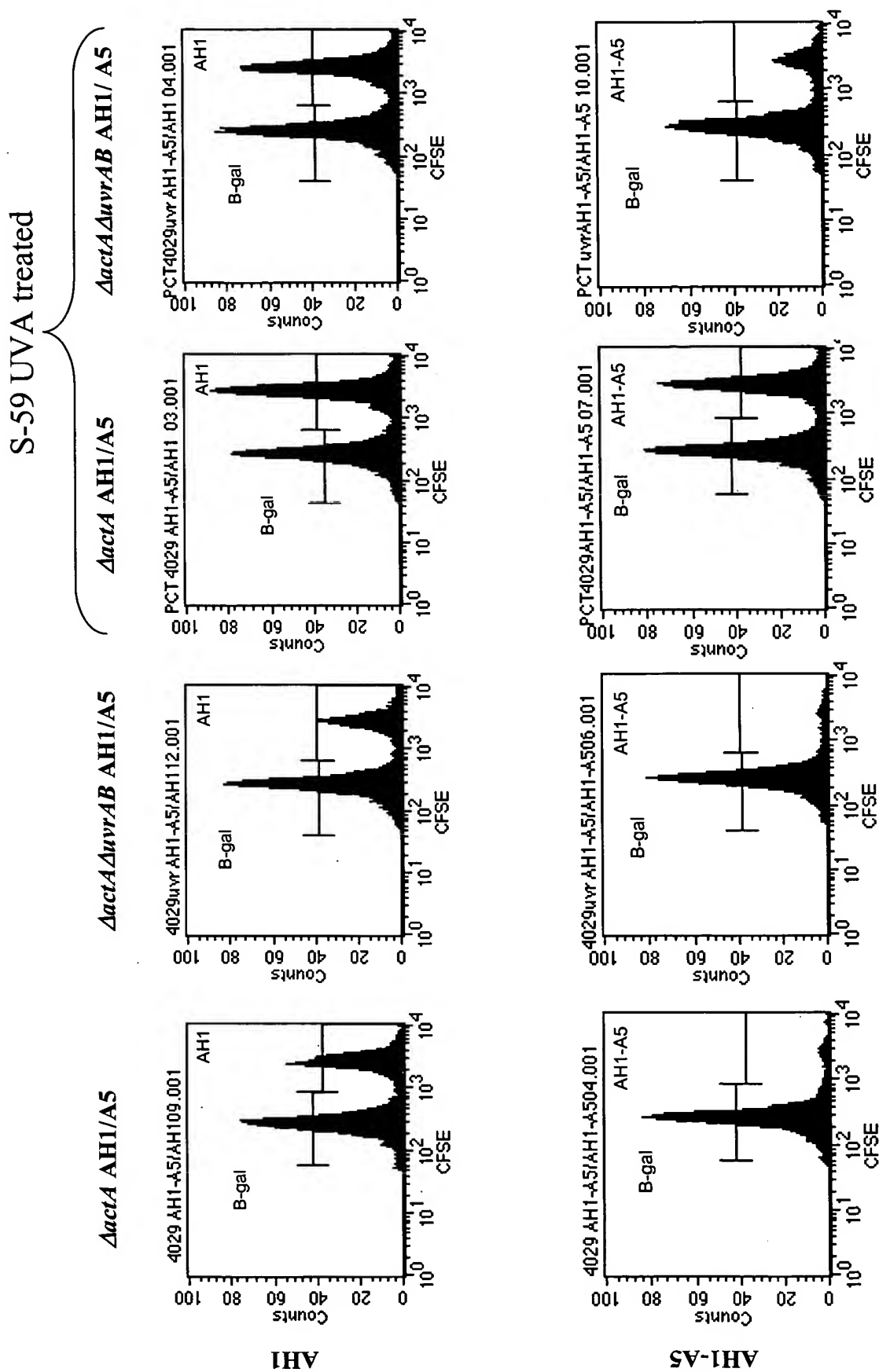


Figure 23B

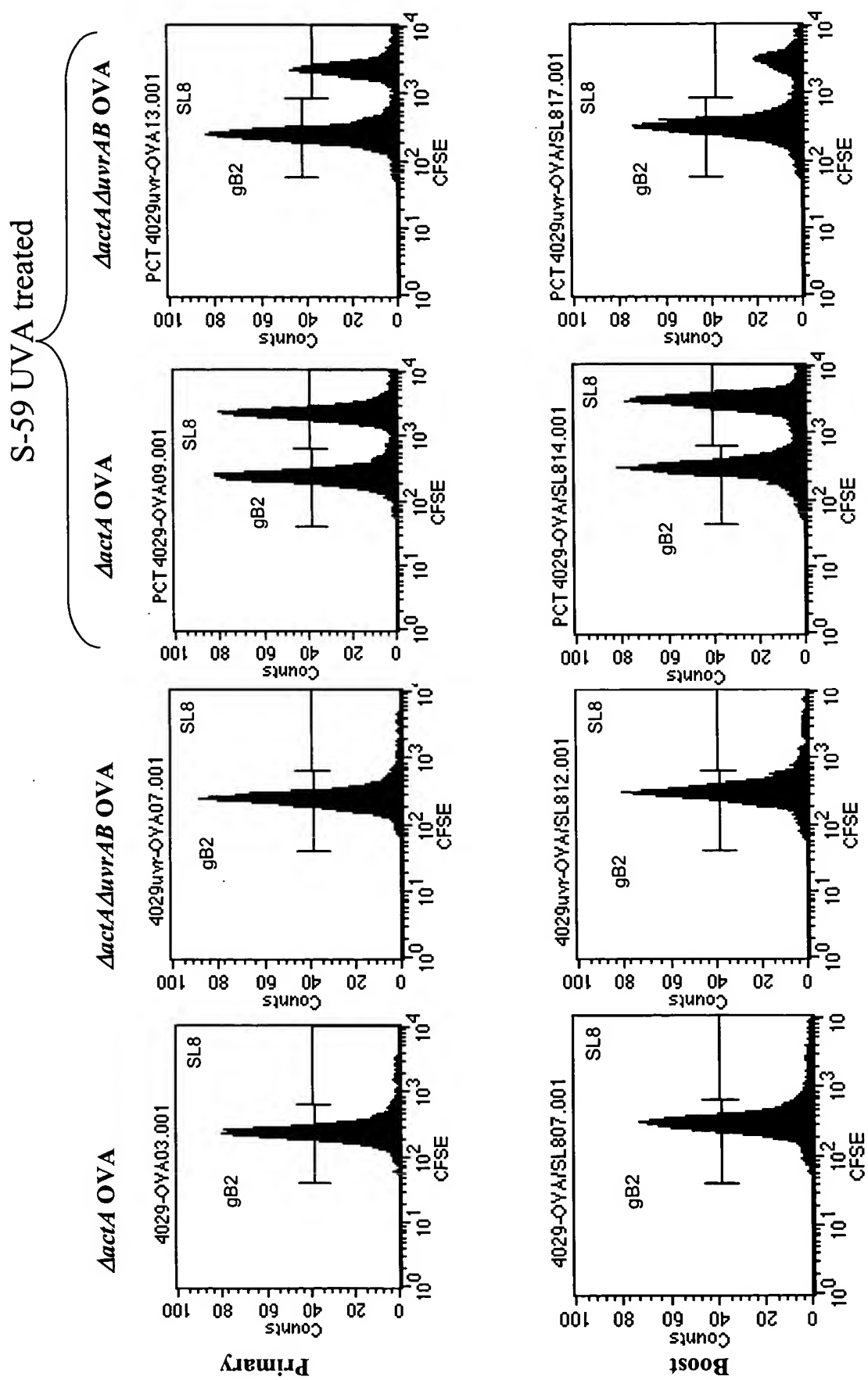


Figure 23C



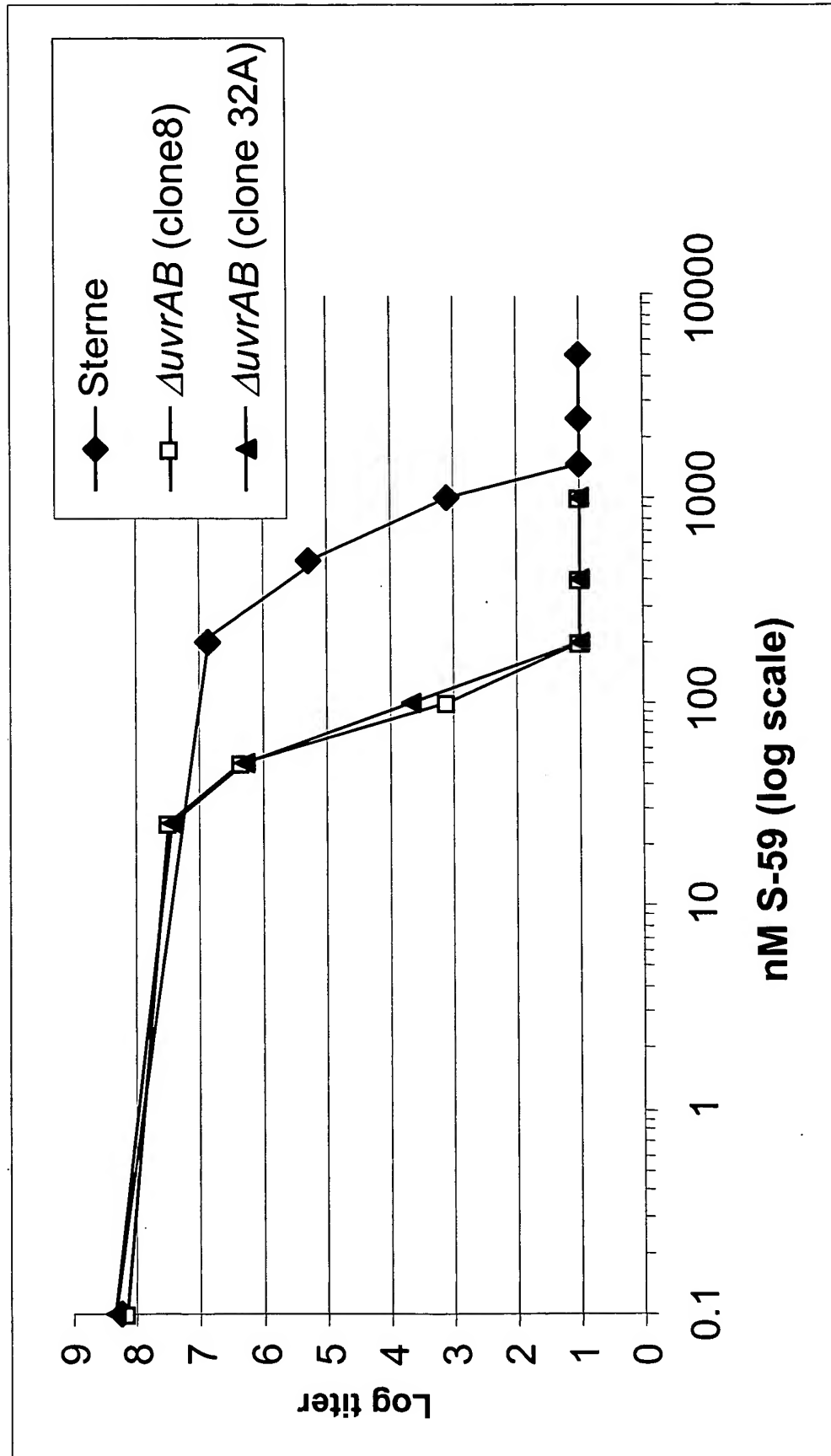
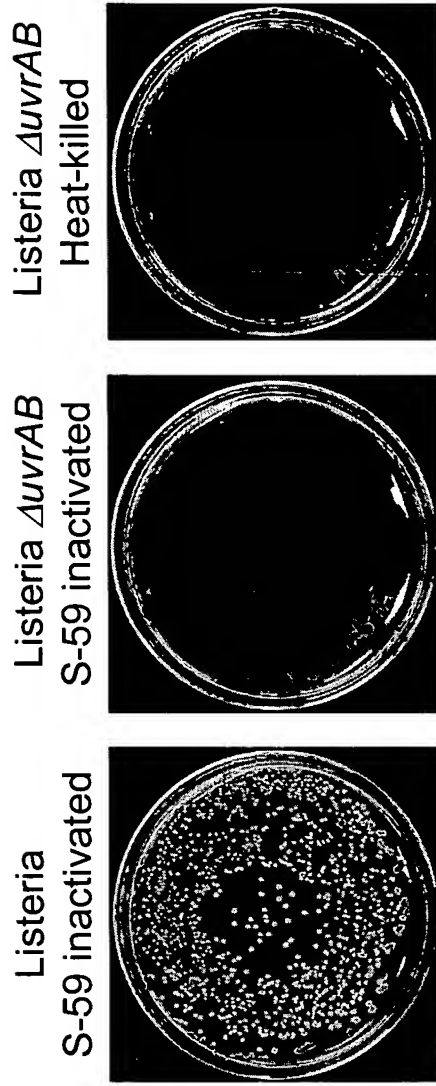


Figure 24

A.



B.

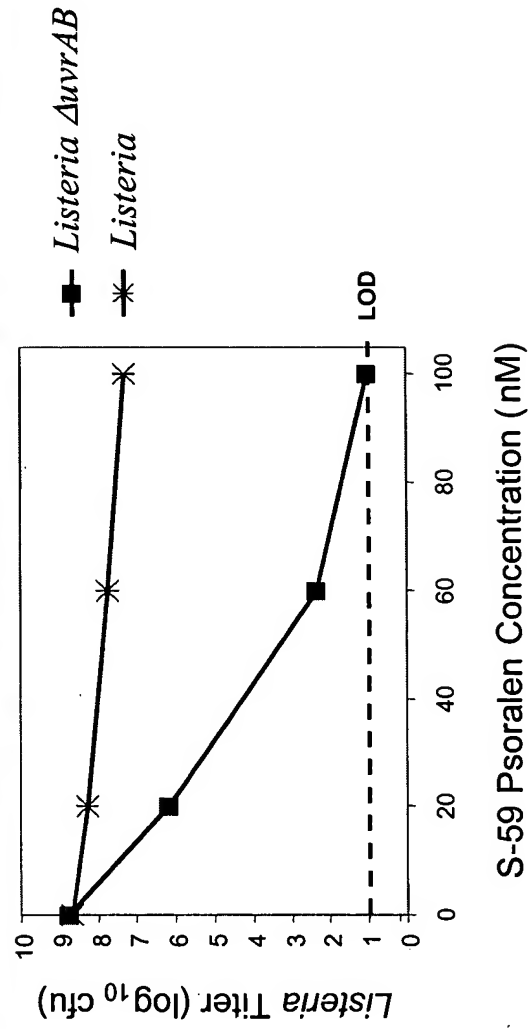


Figure 25

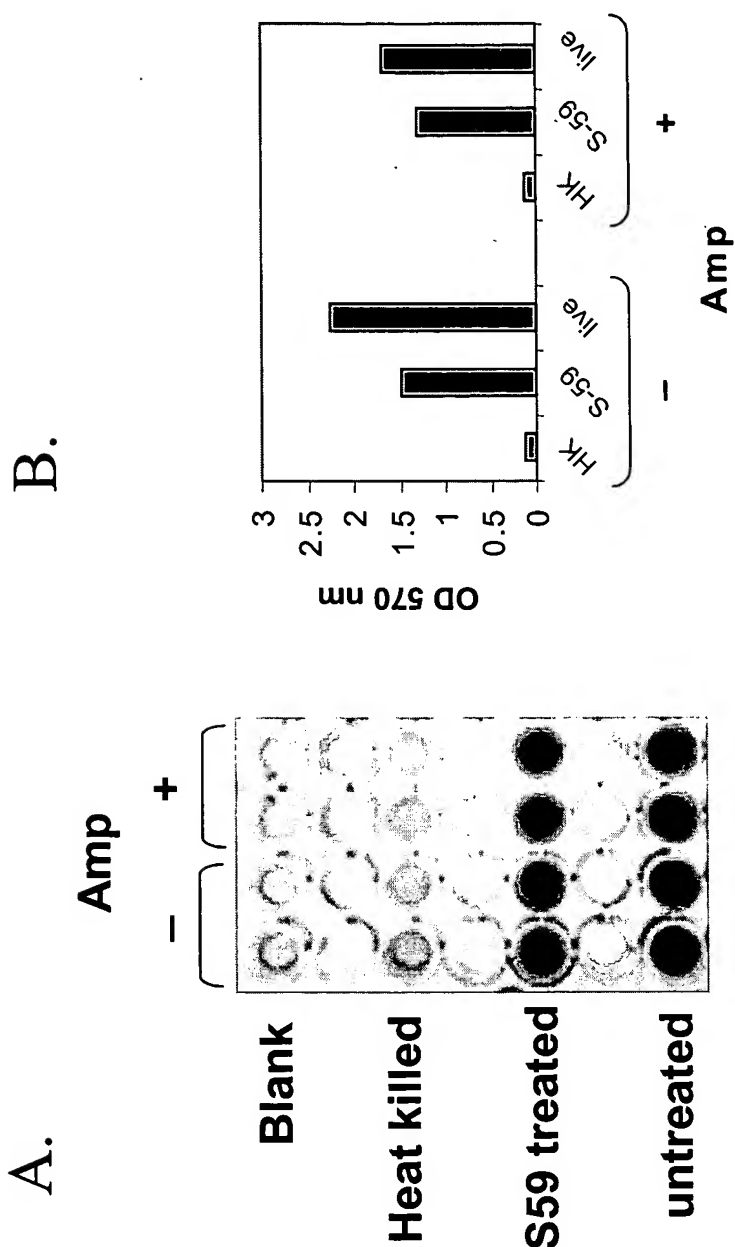
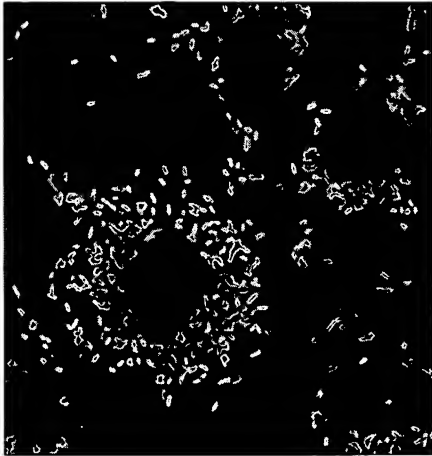
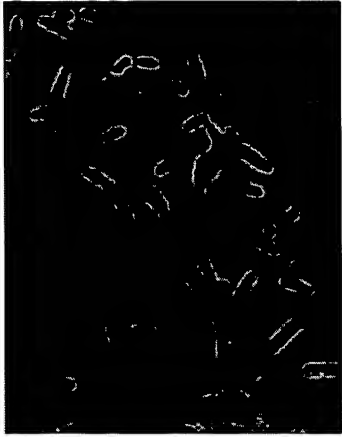


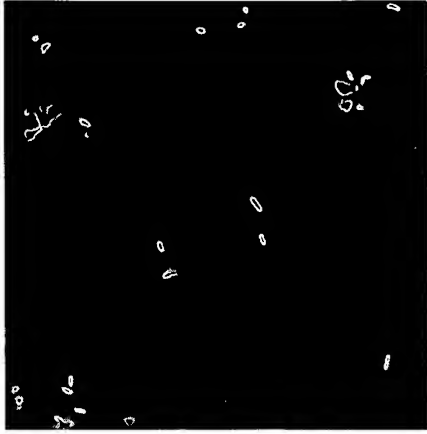
Figure 26



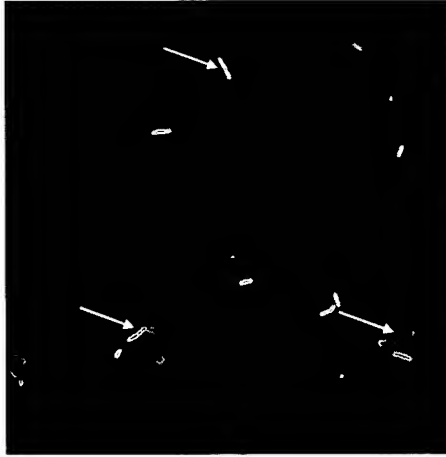
A. Wild type



B. Wild type



C. *Listeria*  $\Delta hly$  (LLO-)



D. *Listeria*  $\Delta uvrAB$   
S-59 UVA inactivated



E. *Listeria*  $\Delta uvrAB$   
S-59 UVA inactivated

Figure 27

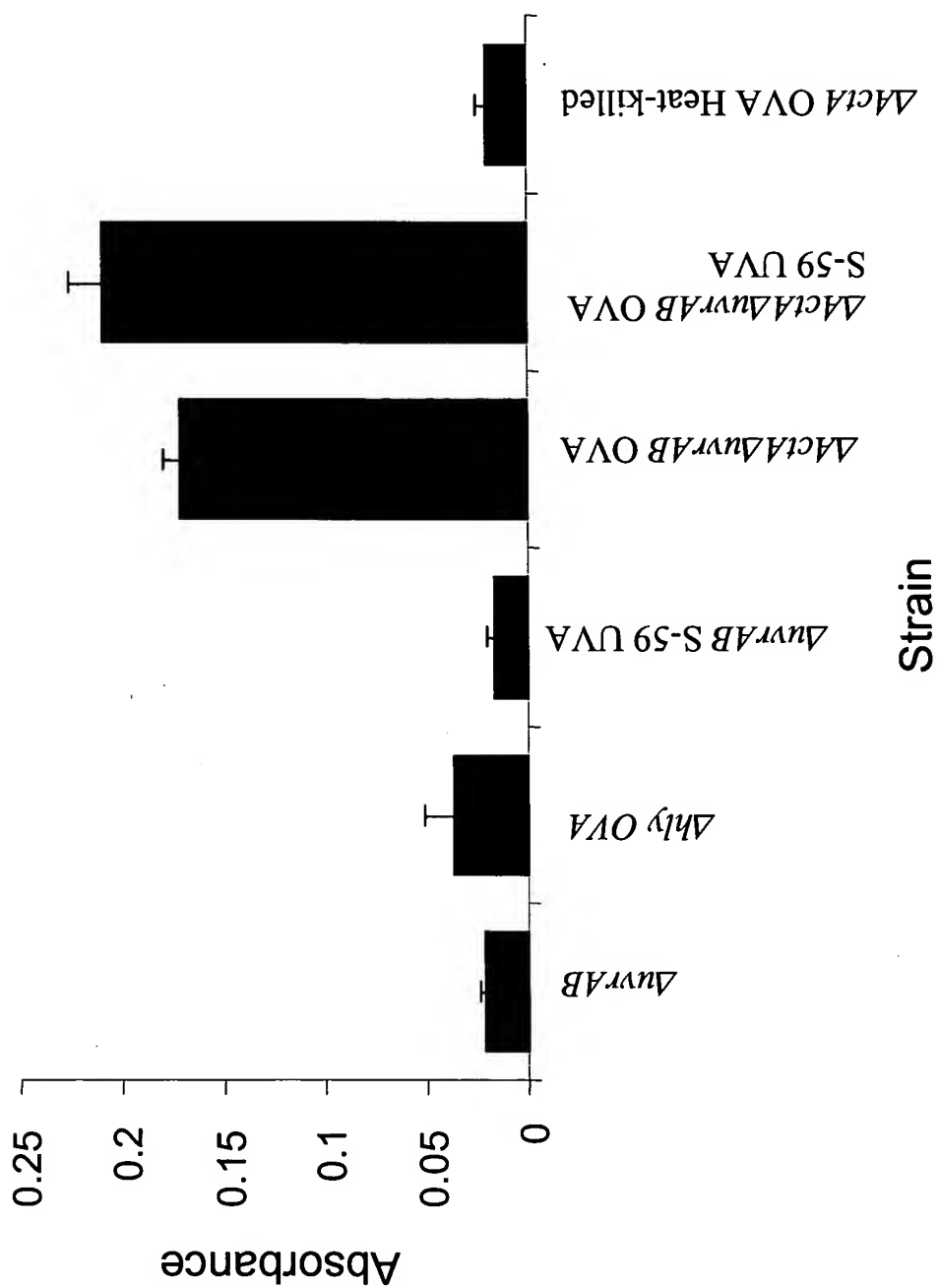


Figure 28

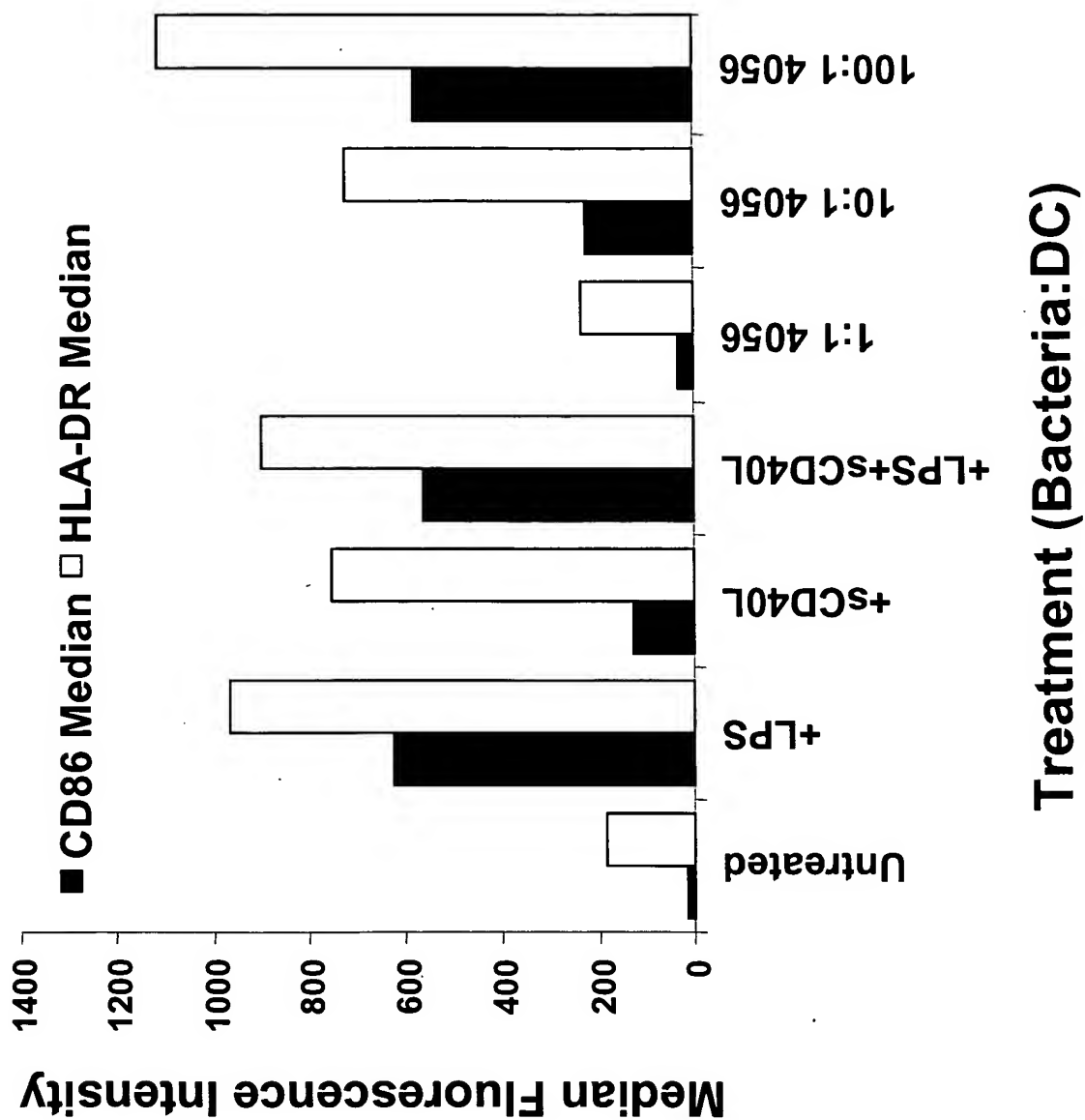


Figure 29A

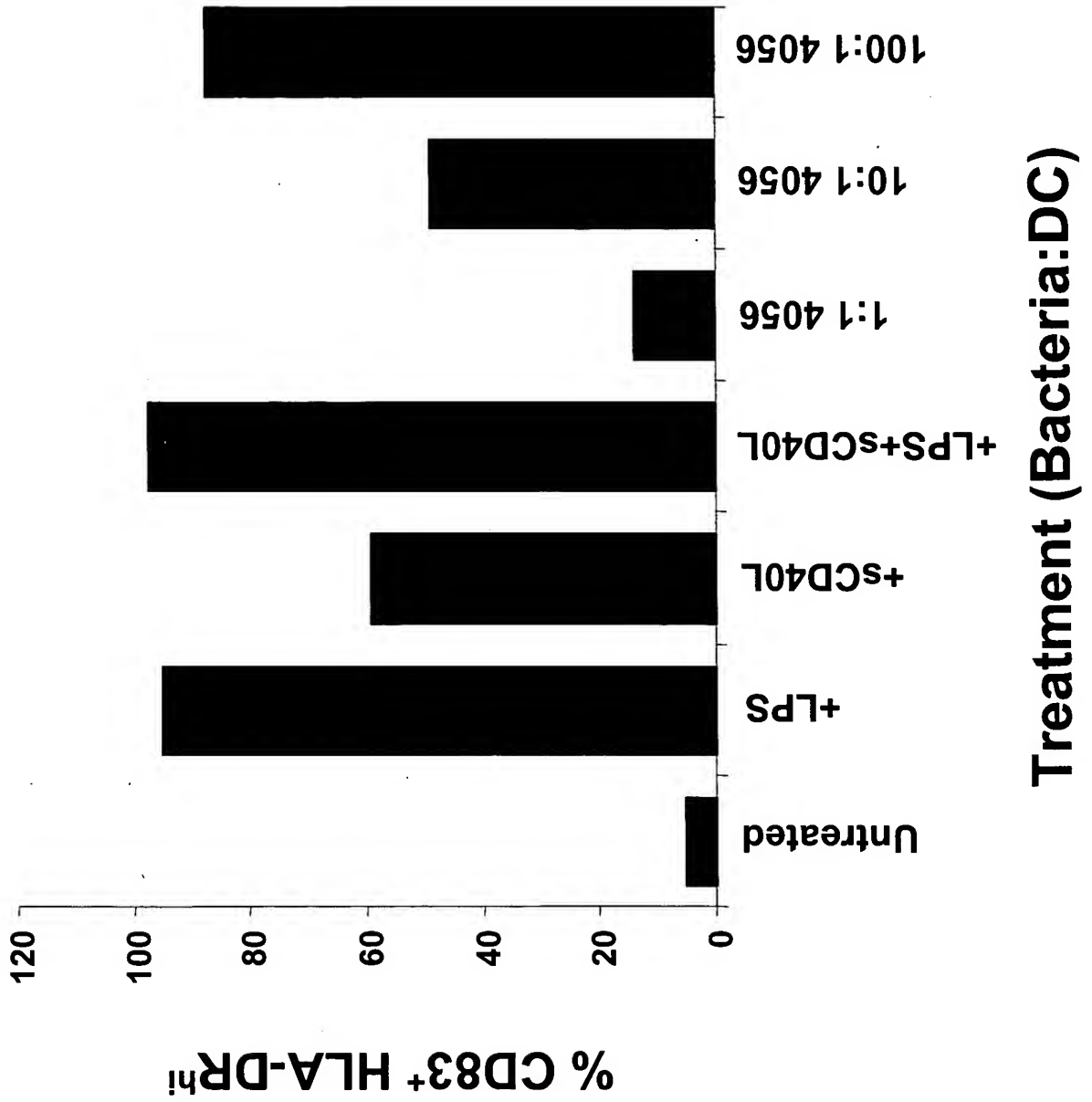


Figure 29B

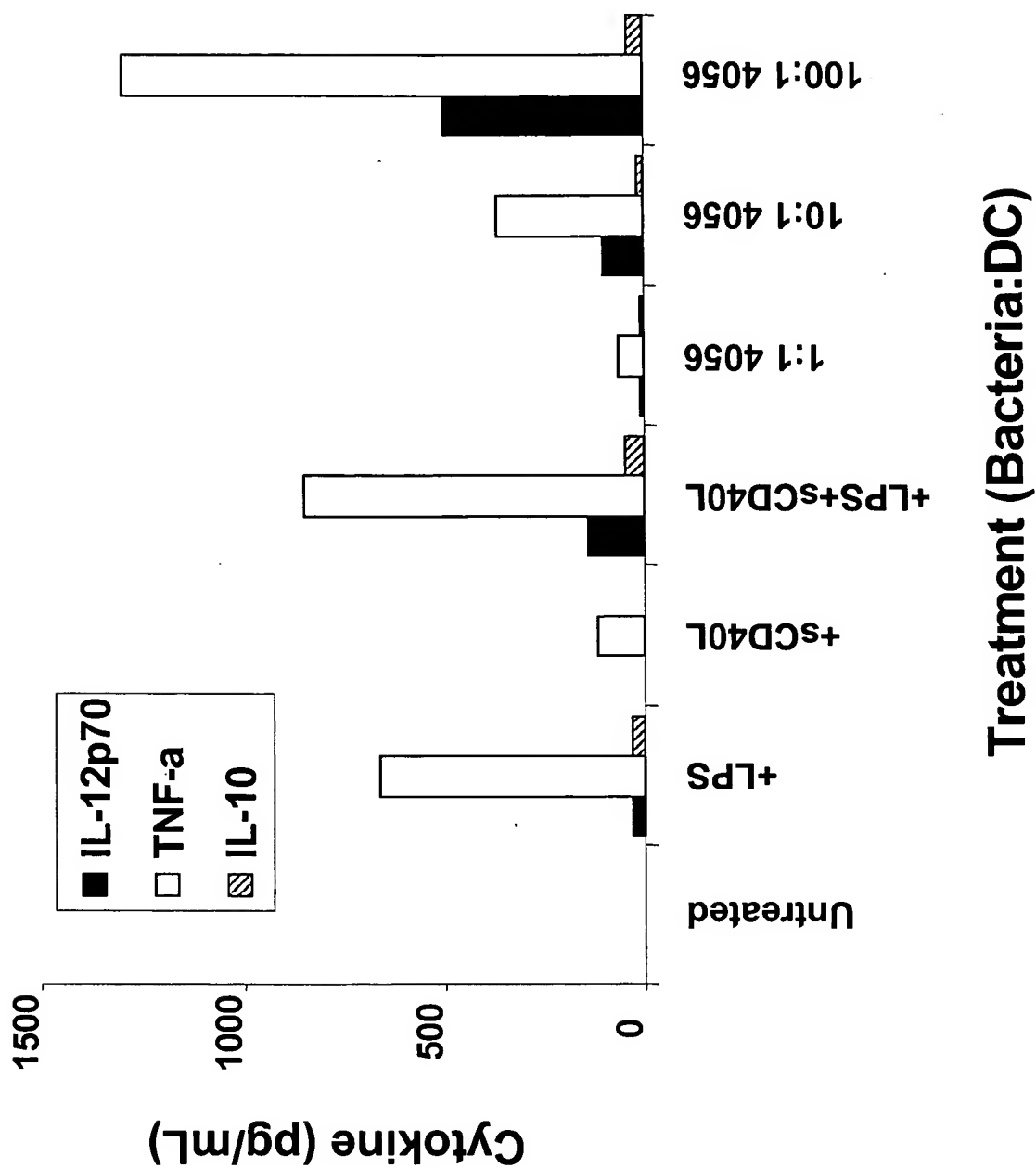


Figure 29C



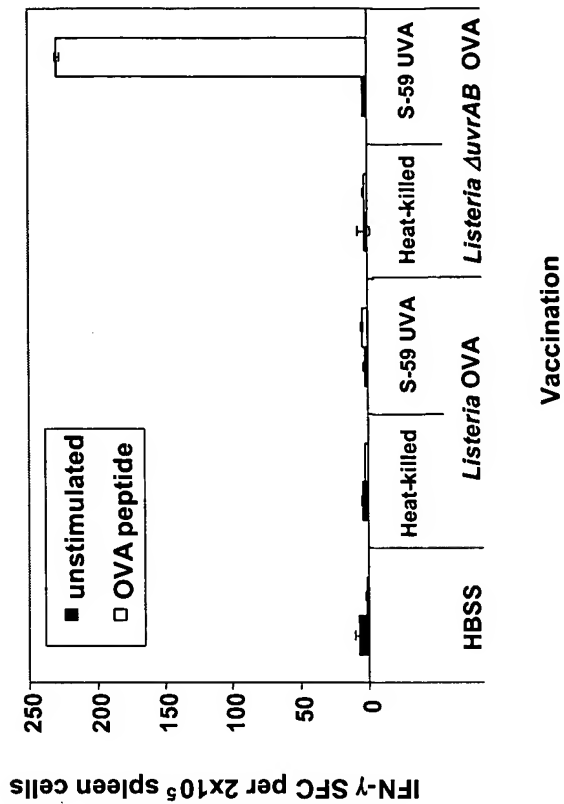
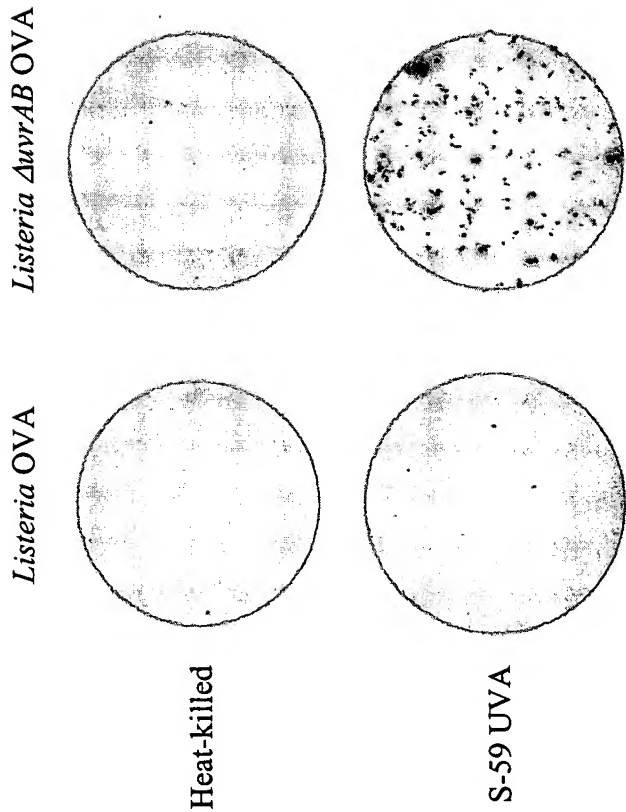


Figure 30

**LLO<sub>(ss-PEST)</sub>-OVA/PR3 class I  
 Primary Amino Acid Sequence**

M K K I M L V F I T L I L V S L P I A Q Q T E A K D A S A F N K E N S I S S M A P P  
A S P P A S P K T P I E K K H A D E I D S P S Y V Y H Q F A A D Q A R E L I N S W  
 V E S Q T N G I I R N V L Q P S S V D S Q T A M V L V N A I V F K G L W E K T F K  
 D E D T Q A M P F R V T E Q E S K P V Q M M Y Q I G L F R V A S M A S E K M K I  
 L E L P F A S G T M S M L V L L P D E V S G L E Q L E **S I N F E K L** T E W T **V L Q**  
**E L N V T V R T S S N V M E E R K I K V Y L P R M K M E E K Y N L T S V L M A M G**  
 I T D V F S S A N L S G I S S A E S L K I S Q A V H A A H A E I N E A G R E V V G  
 S A E A G V D A A S V S E E F R A D H P F L F C I K H I A T N A V L F F G R C V S  
 P

**S I I N F E K L**: OVA H-2 K<sup>b</sup> epitope

**V L Q E L N V T V**: PR3 HLA A-2 restricted class I epitope (a.k.a. PR1)

Listeria secA1 signal peptide and PEST sequence is underlined

Figure 31

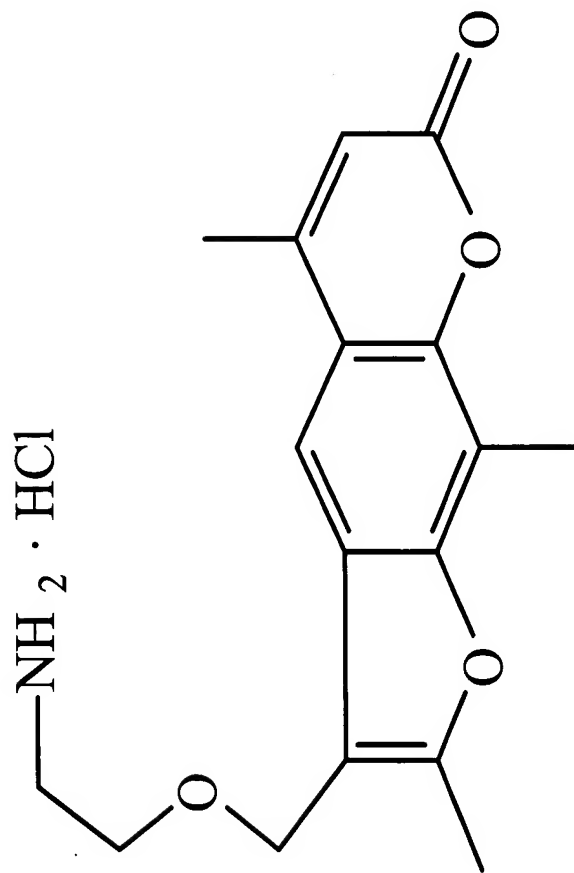


Figure 32